

5-7 8-14
 ring bonds :
 1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-11 8-9 9-10 10-11
 exact/norm bonds :
 1-2 1-6 2-3 3-4 4-5 5-6 5-7 7-8 7-11 8-9 8-14 9-10 10-11
 isolated ring systems :
 containing 1 : 7 :

G1:O,S

Match level :

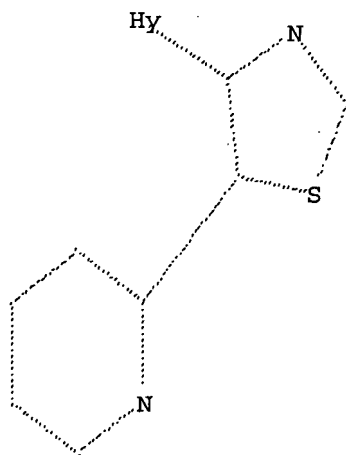
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
 11:Atom 14:Atom

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l1 ful

FULL SEARCH INITIATED 16:51:32 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 8099 TO ITERATE

100.0% PROCESSED 8099 ITERATIONS

31 ANSWERS

SEARCH TIME: 00.00.01

L2 31 SEA SSS FUL L1

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

172.10

172.31

FILE 'CAPLUS' ENTERED AT 16:51:37 ON 27 MAR 2007
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FILE LAST UPDATED: 26 Mar 2007 (20070326/ED)

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=> s l2

L3 7 L2

=> d fbib ed abs hitstr tot

L3 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2006:1124920 CAPLUS

DN 145:455028

TI 2-Aminoquinazolin-5-ones and their preparation, pharmaceutical compositions and used in the treatment of cell proliferative diseases

IN Machajewski, Timothy D.; Gao, Zhenhai; Levine, Barry H.; Antonios-McCrea, William; Bellamacina, Cornelia R.; Costales, Abran; Doughan, Brandon M.; Fong, Susan; Hendrickson, Thomas; Lin, Xiaodong; McBride, Christopher; McKenna, Maureen; Rico, Alice C.; Shafer, Cynthia M.; Wang, X. Michael; Zhou, Yasheen; Xia, Yi; Mendenhall, Kris G.

PA Chiron Corporation, USA

SO PCT Int. Appl., 155pp.

CODEN: PIXXD2

DT Patent

LA English

FAN: CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006113498	A2	20061026	WO 2006-US14194	20060414
WO 2006113498	A3	20070111		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

US 2007027150 A1 20070201 US 2005-671662P P 20050414

US 2006-404372 20060414

US 2005-671662P P 20050414

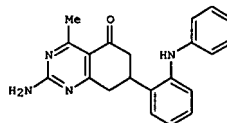
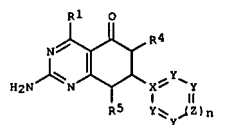
OS MARPAT 145:455028

ED Entered STN: 27 Oct 2006

GI

L3 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued)



AB 2-Amino-quinazolin-5-one compds. of formula I, stereoisomers, tautomers, pharmaceutically acceptable salts, and prodrugs thereof; compns. that include a pharmaceutically acceptable carrier and one or more of the 2-amino-quinazolin-5-one compds., either alone or in combination with at least one addnl. therapeutic agent. Methods of using the 2-amino-quinazolin-5-one compds. of formula I, either alone or in combination with at least one addnl. therapeutic agent, in the prophylaxis or treatment of cell proliferative diseases. Compds. of formula I wherein

n is 0 and 1; when n is 1, X is C, each Y is independently CQ1 and N, and Z is CR2 and N; when n is 0, C is C and N, each Y is independently CQ1, N,

NO2, O and S; Q1 is H, halo, (un)substituted C1-6 alkyl, (un)substituted C2-6 alkenyl, (un)substituted C2-6 alkynyl, (un)substituted C3-7 cycloalkyl, (un)substituted C5-7 cycloalkenyl, (un)substituted heteroalkyl, (un)substituted amino, CN, NO2 etc.; Q2 is H, (un)substituted C1-6 alkyl, (un)substituted C2-6 alkenyl, (un)substituted C2-6 alkynyl, (un)substituted C3-7 cycloalkyl, (un)substituted C5-7 cycloalkenyl, (un)substituted (hetero)aryl, and (un)substituted heterocyclyl; R1 is H, halo, OH, C1-6 alkoxy, thiol, C1-6 alkylthiol, (un)substituted C1-6 alkyl, amino, alkylamino, arylamino, etc.; R2 is H, halo, (un)substituted C1-6 alkyl, OH and derivs., SH and derivs., and NH2 and derivs.; R4 and R5 are independently H, halo, (un)substituted C1-6 alkyl, OH and derivs., SH and derivs., NH2 and derivs., OCOH and derivs., NHC(O)H and derivs., and NHSO2H and derivs.; and their stereoisomers, tautomers, and pharmaceutically acceptable salts are claimed. Example compound II was prepared by coupling of 2-amino-4-methyl-7-(2-bromophenyl)quinazolin-5-one with aniline. All the invention compds.

were

evaluated for their HSP90 inhibitory activity. From the assay, it was

L3 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

detd. that the some of the compds. exhibited IC50 values less than about 0.1 μM.

IT 913374-58-OP 913374-61-5P 913374-64-8P

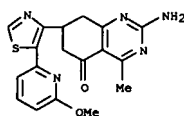
913374-65-9P

RI: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of aminoquinazolinone compds. useful in treatment and prophylaxis of cell proliferative diseases)

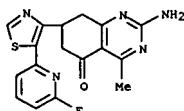
RN 913374-58-0 CAPLUS

CN 5(6H)-Quinazolinone, 2-amino-7,8-dihydro-7-[5-(6-methoxy-2-pyridinyl)-4-thiazolyl]-4-methyl- (9CI) (CA INDEX NAME)



RN 913374-61-5 CAPLUS

CN 5(6H)-Quinazolinone, 2-amino-7-[5-(6-fluoro-2-pyridinyl)-4-thiazolyl]-7,8-dihydro-4-methyl- (9CI) (CA INDEX NAME)



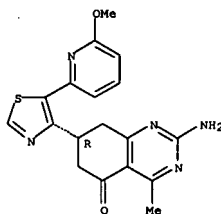
RN 913374-64-8 CAPLUS

CN 5(6H)-Quinazolinone, 2-amino-7,8-dihydro-7-[5-(6-methoxy-2-pyridinyl)-4-thiazolyl]-4-methyl-, (7R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L3 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN

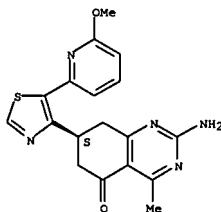
(Continued)



RN 913374-65-9 CAPLUS

CN 5(6H)-Quinazolinone, 2-amino-7,8-dihydro-7-[5-(6-methoxy-2-pyridinyl)-4-thiazolyl]-4-methyl-, (7S)- (9CI) (CA INDEX NAME)

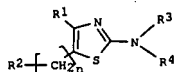
Absolute stereochemistry.



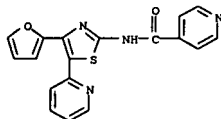
L3 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 2005:612283 CAPLUS
 DN 143:133362
 TI Synthesis of Thiazole derivatives for adenosine A2A receptor antagonist
 IN Nakajima, Takao; Sugawara, Masamori; Uchida, Shinichi; Ohno, Tetsuji;
 Nomoto, Yui; Uesaka, Noriaki; Nakasato, Yoshisuke
 PA Kyowa Hakko Kogyo Co., Ltd., Japan
 SO PCT Int. Appl., 394 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2005063743	A1	20050714	WO 2004-JP19778	20041224
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004309279	A1	20050714	JP 2003-432777	A 20031226
			AU 2004-309279	20041224
			JP 2003-432777	A 20031226
CA 2551611	A1	20050714	WO 2004-JP19778	W 20041224
			CA 2004-2551611	20041224
			JP 2003-432777	A 20031226
EP 1700856	A1	20060913	WO 2004-JP19778	W 20041224
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS			EP 2004-808128	20041224
			JP 2003-432777	A 20031226
CN 1902196	A	20070124	WO 2004-JP19778	W 20041224
			CN 2004-80038930	20041224
			JP 2003-432777	A 20031226
NO 2006003446	A	20060908	WO 2004-JP19778	W 20041224
			NO 2006-3446	20060726
			JP 2003-432777	A 20031226
			WO 2004-JP19778	W 20041224

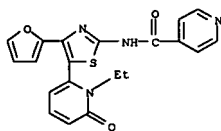
OS MARPAT 143:133362
 ED Entered STN: 15 Jul 2005
 GI



L3 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 IT 858974-36-4P 858975-43-6P
 RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (synthesis of thiazole derivs. for adenosine A2A receptor antagonist)
 RN 858974-36-4 CAPLUS
 CN 4-Pyridinecarboxamide, N-[4-(2-furanyl)-5-(2-pyridinyl)-2-thiazolyl]- (9CI) (CA INDEX NAME)

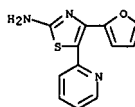


RN 858975-43-6 CAPLUS
 CN 4-Pyridinecarboxamide, N-[5-(1-ethyl-1,6-dihydro-6-oxo-2-pyridinyl)-4-(2-furanyl)-2-thiazolyl]- (9CI) (CA INDEX NAME)

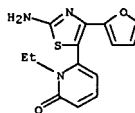


RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 AB The patent relates to the synthesis of an adenosine A2A receptor antagonist which contains as an active ingredient either a thiazole derivative represented by I (wherein n is an integer of 0 to 3) R1 represents (un)substituted cycloalkyl, (un)substituted aryl, (un)substituted alicyclic heterocyclic group, or (un)substituted aromatic heterocyclic group;
 R2 represents halogeno, (un)substituted lower alkyl, (un)substituted aryl, (un)substituted alicyclic heterocyclic group, (un)substituted aromatic heterocyclic group, -COR8, etc.; and R3 and R4 are the same or different and each represents hydrogen, (un)substituted lower alkyl,
 (un)substituted aralkyl, -COR12, etc.) or a pharmacol. acceptable salt of the derivative
 Thus, N-[4-(2-furanyl)-5-(4-pyridyl)thiazol-2-yl]pyridine-4-carboxamide
 (40 gm) was prepared and formulated with lactose 286.8, potato starch 60, hydroxypropylcellulose (10% aqueous solution) 120, and magnesium stearate.
 1.2 gm to make tablets containing 10% active ingredient for adenosine A2A receptor antagonist.
 IT 858980-82-2P 858980-95-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (synthesis of thiazole derivs. for adenosine A2A receptor antagonist)
 RN 858980-82-2 CAPLUS
 CN 2-Thiazolamine, 4-(2-furanyl)-5-(2-pyridinyl)- (9CI) (CA INDEX NAME)



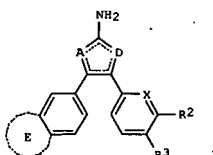
RN 858980-95-7 CAPLUS
 CN 2(1H)-Pyridinone, 6-[2-amino-4-(2-furanyl)-5-thiazolyl]-1-ethyl- (9CI) (CA INDEX NAME)



L3 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 2004:1127377 CAPLUS
 DN 142:74556
 TI Preparation of novel aminothiazoles as inhibitors of the transforming growth factor (TGF-β) signaling pathway
 IN Dodic, Nerina; Donche, Frederic; Gellibert, Francoise Jeanne
 PA Smithkline Beecham Corporation, USA
 SO PCT Int. Appl., 40 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2004111046	A2	20041223	WO 2004-EP6425	20040614
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1660494	A2	20060531	GB 2003-13914	A 20030616
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, HR			EP 2004-739896	20040614
			GB 2003-13914	A 20030616
JP 2006527720	T	20061207	WO 2004-EP6425	W 20040614
			JP 2006-515934	20040614
			GB 2003-13914	A 20030616
US 2006247233	A1	20061102	WO 2004-EP6425	W 20040614
			US 2006-560691	20060413
			GB 2003-13914	A 20030616
			WO 2004-EP6425	W 20040614

OS MARPAT 142:74556
 ED Entered STN: 24 Dec 2004
 GI



L3 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 AB The title compds. I (either A = S and D = N; or A = N and D = S; ring E = (un)substituted (un)saturated or aromatic 5-6 membered heterocycle; X = N, CH; R2

= H, alkyl, halo, CN, perfluoroalkyl; R3 = H, halo) which are inhibitors of the transforming growth factor, ("TGF")- β signaling pathway, in particular, the phosphorylation of smad2 or smad3 by the TGF- β type I or activin-like kinase ("ALK")-5 receptor, were prepared. E.g., a multi-step synthesis of 5-(1-methylbenzimidazol-6-yl)-4-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine, which showed an ALK5 receptor modulator activity of 16

nM and TGF- β cellular activity of 11 nM, was given. The invention also relates to the use of compds. I in medicine, specifically in the treatment

and prevention of a disease state mediated by this pathway. The pharmaceutical compns. comprising the compound I is disclosed.

IT 676165-90-5P 813448-89-4P, 4-(Benzoxazol-6-yl)-5-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 813448-94-1P 813448-95-2P, 4-(Quinolin-6-yl)-5-(pyridin-2-yl)-1,3-thiazol-2-amine 813448-96-3P, 4-(1-Methylbenzotriazol-6-yl)-5-(pyridin-2-yl)-1,3-thiazol-2-amine 813448-97-4P, 4-(1-Methylbenzimidazol-6-yl)-5-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine

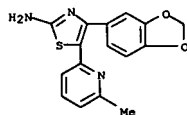
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(Preparation of novel aminothiazoles as inhibitors of transforming growth

factor β for treatment of disorders mediated by the ALK5 receptor)

RN 676165-90-5 CAPLUS

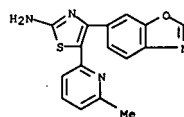
CN 2-Thiazolamine, 4-(1,3-benzodioxol-5-yl)-5-(6-methyl-2-pyridinyl)- (9CI) (CA INDEX NAME)



RN 813448-89-4 CAPLUS

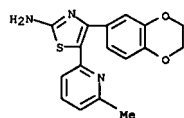
CN 2-Thiazolamine, 4-(6-benzoxazolyl)-5-(6-methyl-2-pyridinyl)- (9CI) (CA INDEX NAME)

L3 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



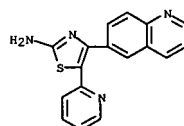
RN 813448-94-1 CAPLUS

CN 2-Thiazolamine, 4-(2,3-dihydro-1,4-benzodioxin-6-yl)-5-(6-methyl-2-pyridinyl)- (9CI) (CA INDEX NAME)



RN 813448-95-2 CAPLUS

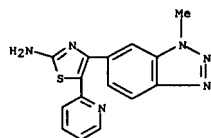
CN 2-Thiazolamine, 5-(2-pyridinyl)-4-(6-quinolinyl)- (9CI) (CA INDEX NAME)



RN 813448-96-3 CAPLUS

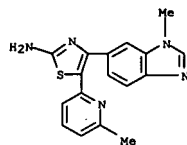
CN 2-Thiazolamine, 4-(1-methyl-1H-benzotriazol-6-yl)-5-(2-pyridinyl)- (9CI) (CA INDEX NAME)

L3 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 813448-97-4 CAPLUS

CN 2-Thiazolamine, 4-(1-methyl-1H-benzimidazol-6-yl)-5-(6-methyl-2-pyridinyl)- (9CI) (CA INDEX NAME)



L3 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2004:267326 CAPLUS

DN 140:287371

TI Preparation of 2-(oxazol-4-yl)pyridines and related compounds as transforming growth factor (TGF) inhibitors for the treatment of cancer and fibrotic diseases

IN Blumberg, Laura Cook; Munchhof, Michael John

FA Pfizer Products Inc., USA

SO PCT Int. Appl., 72 pp.

CODEN: PIXXD2

DT Patent

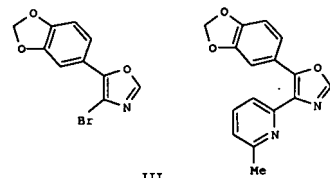
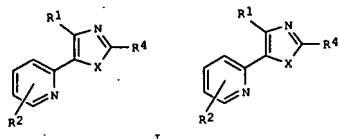
LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2004026863	A1	20040401	WO 2003-1B3823	20030908
W: A2, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, D2, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GH, GG, GW, ML, MR, NE, SM, TD, TG				
BR 2003014383	A	20050719	US 2002-412120P	P 20020918
			US 2003-471265P	P 20030516
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			US 2002-412120P	P 20020918
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			US 2003-484581P	P 20030702
			WO 2003-1B3823	W 20030908
CA 2499429	A1	20040401	CA 2003-2499429	20030908
			US 2002-412120P	P 20020918
			US 2003-471265P	P 20030516
			US 2003-484581P	P 20030702
			WO 2003-1B3823	W 20030908
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			WO 2003-1B3823	W 20030908
EP 1542994	A1	20050622	EP 2003-797426	20030908
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
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CN 1681810	A	20051012	CN 2003-822220	20030908
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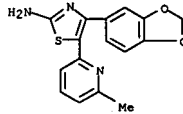
L3 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 US 2004110797 A1 20040610 WO 2003-IB3823 W 20030908
 US 2003-667187 20030917
 US 2002-412120P P 20020918
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 ZA 2005002270 A 20050919 ZA 2005-2270 20050317
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 NO 2005001838 A 20050415 NO 2005-1838 20050415
 US 2002-412120P P 20020918
 US 2003-471265P P 20030516
 US 2003-484581P P 20030702
 WO 2003-IB3823 W 20030908

OS MARPAT 140:287371
 ED Entered STN: 01 Apr 2004
 GI



AB Title compds. I and II (X = O, S; R1 = (un)saturated aromatic, monocyclic, bicyclic, etc.; R2 = (R3)s; R3 = H, halo, halo-alkyl, etc.; s = 1-5; R4 = H, halo, halo-alkyl, etc.) and their pharmaceutically acceptable salts were prepared. For example, Stille coupling of bromide III e.g., prepared from benzo[1,3]dioxole-5-carboxaldehyde in 2-steps, and 2-bromo-6-methylpyridine afforded oxazole IV in 70% yield. In β 1-transforming growth factors kinase assays, 10-examples of compds. I and II exhibited IC50 values ranging from 19.7-600 nM. Of note, compds. I and II also possess differential activity, i.e. are selective for β 1-TGF over

L3 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 β 2-TGF and β 3-TGF. Compds. I and II are claimed useful for the treatment of TGF-related disease states including cancer and fibrotic diseases.
 IT 676165-90-5P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of 2-(oxazol-4-yl)pyridines and related compds. as transforming growth factor (TGF) inhibitors for the treatment of cancer and fibrotic diseases)
 RN 676165-90-5 CAPLUS
 CN 2-Thiazolamine, 4-(1,3-benzodioxol-5-yl)-5-(6-methyl-2-pyridinyl)- (9CI) (CA INDEX NAME)



RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 AN 2004:120851 CAPLUS
 DN 140:181331
 TI Preparation of 2-phenylpyridin-4-yl heterocycles as selective activin-like

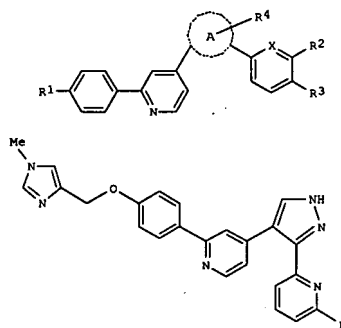
kinase-5 inhibitors useful against fibrosis and other disorders
 IN Dodic, Nerina; Gellibert, Françoise Jeanne
 PA Smithkline Beecham Corporation, USA
 SO PCT Int. Appl., 119 pp.
 CODEN: PIXXD2

DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004013135	A1	20040212	WO 2003-EP8496	20030729
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BE, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003260345	A1	20040223	GB 2002-17751 A	20020731
			GB 2003-14698 A	20030624
			AU 2003-260345 A	20030729
			GB 2002-17751 A	20020731
			GB 2003-14698 A	20030624
			WO 2003-EP8496 W	20030729
EP 1539748	A1	20050615	EP 2003-766385	20030729
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2005539000	T	20051222	GB 2002-17751 A	20020731
			GB 2003-14698 A	20030624
			WO 2003-EP8496 W	20030729
			US 2003-522969	20050131
US 2005245520	A1	20051103	GB 2002-17751 A	20020731
			GB 2003-14698 A	20030624
			WO 2003-EP8496 W	20030729

OS MARPAT 140:181331
 ED Entered STN: 13 Feb 2004
 GI

L3 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



AB This invention relates to novel 2-phenylpyridin-4-yl heterocycles (shown as I; variables defined below; e.g. II) that are inhibitors of the transforming growth factor, ('TGF')- β signaling pathway, in particular, the phosphorylation of Smad-2 or Smad-3 by the TGF- β type I or activin-like kinase ('ALK')-5 receptor, methods for their preparation and their use in medicine, specifically in the treatment and prevention of a disease state mediated by this pathway, e.g. fibrosis (no data). All examples of I show ALK-5 receptor modulator activity (having IC50 values at 0.4-275 nM) and TGF- β cellular activity (having IC50 values at 0.001-10 μ M). 4-[4-[4-(2-tert-Butyl-5-(6-methylpyridin-2-yl)-1H-imidazol-4-yl)pyridin-2-yl]phenyl]morpholine showed an ALK-5 receptor modulator activity of 34 nM and TGF- β cellular activity of 183 nM. N-(tetrahydropyran-4-yl)-4-[4-[2-isopropyl-5-(6-methylpyridin-2-yl)-1H-imidazol-4-yl]pyridin-2-yl]benzamide showed an ALK-5 receptor modulator activity of 25 nM and TGF- β cellular activity of <14 nM. Although the methods of preparation are not claimed, >150 example preps. of I and approx.130 example preps. of intermediates are included. For example, II was prepared in 37% yield by reacting 4-[4-[3-(6-methylpyridin-2-yl)-1-trityl-1H-pyrazol-4-yl]pyridin-2-yl]phenol and NaH in DMF with 1-methyl-4-hydroxymethylimidazole followed by removal of the trityl group using HCl in MeOH; details are also given for preparation of the reactants.

For I: A is furan, dioxolane, thiophene, pyrrole, imidazole, pyrrolidine, pyran, pyridine, pyrimidine, morpholine, piperidine, oxazole, isoxazole, oxazoline, oxazolidine, thiazole, isothiazole, thiadiazole, benzofuran, indole, isoindole, indazole, imidazopyridine, quinazoline, quinoline, isoquinoline, pyrazole or triazole; X is N or CH; R1 is H, Cl-6alkyl, Cl-6alkenyl, Cl-6alkoxy, halo, cyano, perfluoro Cl-6alkyl, perfluoro Cl-6alkoxy, -NR5R6, -(CH2)nNR5R6, -O(CH2)nOR7, -O(CH2)n-Net, -O(CH2)nNR5R6, -CONR5R6, -CO(CH2)nNR5R6, -SO2R7, -SO2NR5R6, -NR5SO2R7,

L3 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
-NR5COR7, -O(CH2)nCONR5R6, -NR5CO(CH2)nNR5R6 or -C(O)R7; R2 is H, Cl-6alkyl, halo, cyano or perfluoroCl-6alkyl; R3 is H or halo; R4 is H, halo, Ph, Cl-6alkyl or -NR5R6; addnl. details including provisos are given in the claims.

IT 656258-00-3P, 4-[2-(4-chlorophenyl)pyridin-4-yl]-5-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 656258-01-4P, 4-[2-(4-(trifluoromethoxy)phenyl)pyridin-4-yl]-5-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 656258-02-5P, 4-[2-(4-

(ethanesulfonyl)phenyl)pyridin-4-yl]-5-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 656258-03-6P, 4-[2-(4-[[[Tetrahydropyran-4-yl]amino]carbonyl]phenyl)pyridin-4-yl]-5-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 656258-04-7P, 4-[2-(4-[(Morpholin-4-yl)carbonyl]phenyl)pyridin-4-yl]-5-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 656258-05-8P, 4-[2-(4-[(4-ethylpiperazin-1-yl)carbonyl]phenyl)pyridin-4-yl]-5-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 656258-06-9P, 4-[2-(4-[(Morpholin-4-yl)methyl]phenyl)pyridin-4-yl]-5-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 656258-07-0P, 4-[2-(4-(Morpholin-4-yl)phenyl)pyridin-4-yl]-5-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 656258-08-1P,

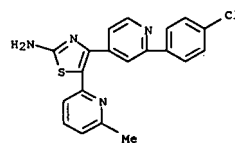
4-[2-(4-[2-(pyrrolidin-1-yl)ethoxy]phenyl)pyridin-4-yl]-5-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 656258-09-2P, 4-[2-(4-(Aminocarbonylmethoxy)phenyl)pyridin-4-yl]-5-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 656258-10-5P, 4-[2-(4-[(Morpholin-4-yl)carbonyl]methoxy]phenyl)pyridin-4-yl]-5-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 656258-11-6P, 4-[2-(4-[(Pyrrolidin-1-yl)methyl]phenyl)pyridin-4-yl]-5-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 656258-12-7P, 4-[2-(4-[(Dimethylamino)methyl]phenyl)pyridin-4-yl]-5-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 656258-13-8P, 4-[2-(4-[[[Tetrahydropyran-4-yl]amino]carbonyl]phenyl)pyridin-4-yl]-5-(pyridin-2-yl)-1,3-thiazol-2-amine 656258-14-9P,

4-[2-(4-(Morpholin-4-yl)phenyl)pyridin-4-yl]-5-(pyridin-2-yl)-1,3-thiazol-2-amine
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

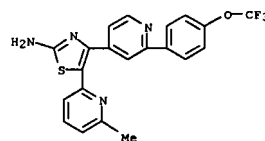
(drug candidate; preparation of 2-phenylpyridin-4-yl heterocycles as selective activin-like kinase-5 inhibitors useful against fibrosis and other disorders)

RN 656258-00-3 CAPLUS
CN 2-Thiazolamine, 4-[2-(4-chlorophenyl)-4-pyridinyl]-5-(6-methyl-2-pyridinyl)- (9CI) (CA INDEX NAME)

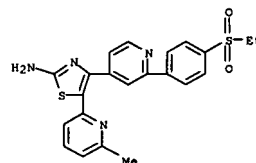
L3 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 656258-01-4 CAPLUS
CN 2-Thiazolamine, 5-(6-methyl-2-pyridinyl)-4-[2-(4-(trifluoromethoxy)phenyl)-4-pyridinyl]- (9CI) (CA INDEX NAME)

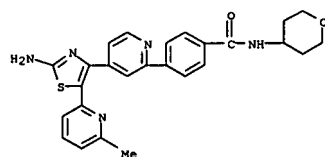


RN 656258-02-5 CAPLUS
CN 2-Thiazolamine, 4-[2-(4-(ethanesulfonyl)phenyl)-4-pyridinyl]-5-(6-methyl-2-pyridinyl)- (9CI) (CA INDEX NAME)

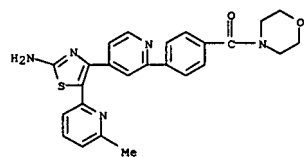


RN 656258-03-6 CAPLUS
CN Benzamide, 4-[4-[2-amino-5-(6-methyl-2-pyridinyl)-4-thiazolyl]-2-pyridinyl]-N-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

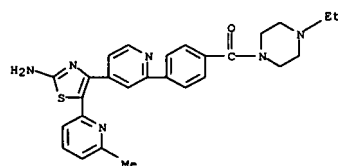
L3 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 656258-04-7 CAPLUS
CN Morpholine, 4-[4-[2-amino-5-(6-methyl-2-pyridinyl)-4-thiazolyl]-2-pyridinyl]benzoyl- (9CI) (CA INDEX NAME)

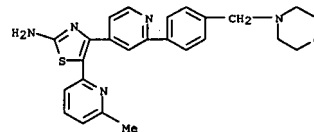


RN 656258-05-8 CAPLUS
CN Piperazine, 1-[4-[4-[2-amino-5-(6-methyl-2-pyridinyl)-4-thiazolyl]-2-pyridinyl]benzoyl]-4-ethyl- (9CI) (CA INDEX NAME)

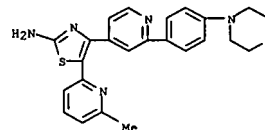


RN 656258-06-9 CAPLUS
CN 2-Thiazolamine, 5-(6-methyl-2-pyridinyl)-4-[2-(4-(4-morpholinylmethyl)phenyl)-4-pyridinyl]- (9CI) (CA INDEX NAME)

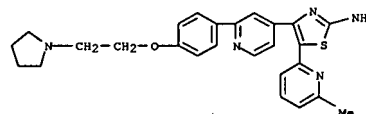
L3 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 656258-07-0 CAPLUS
CN 2-Thiazolamine, 5-(6-methyl-2-pyridinyl)-4-[2-(4-(4-morpholinyl)phenyl)-4-pyridinyl]- (9CI) (CA INDEX NAME)

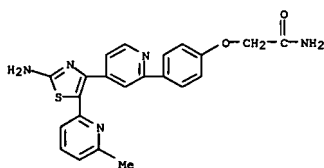


RN 656258-08-1 CAPLUS
CN 2-Thiazolamine, 5-(6-methyl-2-pyridinyl)-4-[2-(4-(2-(1-pyrrolidinyl)ethoxy)phenyl)-4-pyridinyl]- (9CI) (CA INDEX NAME)

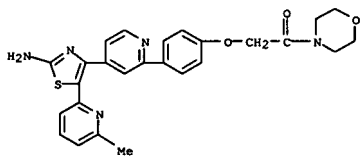


RN 656258-09-2 CAPLUS
CN Acetamide, 2-[4-[4-[2-amino-5-(6-methyl-2-pyridinyl)-4-thiazolyl]-2-pyridinyl]phenoxy]- (9CI) (CA INDEX NAME)

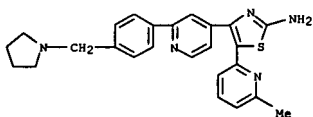
L3 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 656258-10-5 CAPLUS
 CN Morpholine, 4-((4-((2-amino-5-(6-methyl-2-pyridinyl)-4-thiazolyl)-2-pyridinyl)phenoxy)acetyl)-(9CI) (CA INDEX NAME)



RN 656258-11-6 CAPLUS
 CN 2-Thiazolamine, 5-(6-methyl-2-pyridinyl)-4-((4-((1-pyrrolidinylmethyl)phenyl)-4-pyridinyl)-(9CI) (CA INDEX NAME)



RN 656258-12-7 CAPLUS
 CN 2-Thiazolamine, 4-((2-((4-((dimethylamino)methyl)phenyl)-4-pyridinyl)-5-(6-methyl-2-pyridinyl)-(9CI) (CA INDEX NAME)

L3 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2004:120850 CAPLUS
 DN 140:163858
 TI Preparation of aminothiazoles as inhibitors of the transforming growth factor-beta (TGF-β) signalling pathway
 IN Dodic, Nerina; Gellibert, Françoise Jeanne
 PA Smithkline Beecham Corporation, USA
 SO PCT Int. Appl., 69 pp.
 CODEN: PIXX02

DT Patent
 LA English
 FAN. CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2004013134	A2	20040212	WO 2003-EP8385	20030729
WO 2004013134	A3	20040325		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2003255322	A1	20040223	AU 2003-255322	20030729
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			WO 2003-EP8385	W 20030729
EP 1554275	A2	20050720	EP 2003-766352	20030729
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JP 2005538996	T	20051222	JP 2004-525372	20030729
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			WO 2003-EP8385	W 20030729
US 2006004051	A1	20060105	US 2005-522968	20050131
			GB 2002-17787	A 20020731
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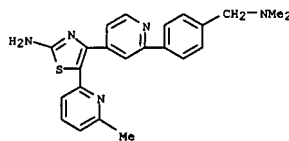
OS MARPAT 140:163858
 ED Entered STN: 13 Feb 2004
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

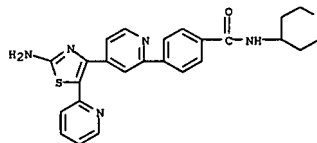
AB Title compds. I [wherein either A = S and B = N, or A = N and B = S; X = CH or N; R1 = H, alk(en)yl, perfluoroalkoxy, halo, CN, perfluoroalkyl, NH2 and derivs., (CH2)nNH2 and derivs., CONH2 and derivs., SO2H and derivs., SO2NH2 and derivs., etc.; R2 = H, perfluoroalkyl, halo, CN; R3

H, halo; R4 = NH2; n = 1-4 with the proviso that certain compds. are not considered] were prepared as inhibitors of the transforming growth factor-beta (TGF-β) signaling pathway, in particular, the phosphorylation of smad2 or smad3 by the TGF-β type I or activin-like kinase-5 (ALK-5) receptor for treatment and prevention of a disease state

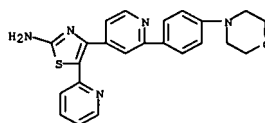
L3 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 656258-13-8 CAPLUS
 CN Benzamide, 4-((4-((2-amino-5-(6-methyl-2-pyridinyl)-4-thiazolyl)-2-pyridinyl)phenoxy)acetyl)-(9CI) (CA INDEX NAME)



RN 656258-14-9 CAPLUS
 CN 2-Thiazolamine, 4-((2-((4-((morpholinyl)phenyl)-4-pyridinyl)-5-(6-methyl-2-pyridinyl)-(9CI) (CA INDEX NAME)



L3 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

mediated by this pathway. For example, II was prep'd by reaction of 2-bromo-4-methylpyridine with Me 6-methylpicolinate, Pd-cross coupling with 4-(methoxycarbonyl)phenylboronic acid, hydrolysis, acylation of 4-aminotetrahydrofuran with the resulting acid, followed by solid phase cyclodehydration of III with thiourea. II showed an ALK5 receptor modulator activity of 14 nM in an ALK5 fluorescence polarization assay

and TGF-β cellular activity of 29 nM in a cellular transcriptional assay. Thus, I are useful for treating or preventing a disease or condition mediated by ALK-5 inhibition, in particular kidney fibrosis.
 IT 656258-00-3P, 4-((2-((4-chlorophenyl)pyridin-4-yl)-5-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 656258-01-4P,

4-((2-((4-trifluoromethoxyphenyl)pyridin-4-yl)-5-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 656258-02-5P, 4-((2-((4-

(ethanesulfonyl)phenyl)pyridin-4-yl)-5-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 656258-03-6P, 4-((2-((4-((tetrahydropyran-4-yl)amino)carbonyl)phenyl)pyridin-4-yl)-5-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 656258-04-7P, 4-((2-((4-((morpholin-4-yl)carbonyl)phenyl)pyridin-4-yl)-5-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 656258-05-8P, 4-((2-((4-((1-ethylpiperazin-4-yl)carbonyl)phenyl)pyridin-4-yl)-5-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 656258-06-9P, 4-((2-((4-((morpholin-4-yl)methyl)phenyl)pyridin-4-yl)-5-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 656258-07-0P, 4-((2-((4-((morpholin-4-yl)phenyl)pyridin-4-yl)-5-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 656258-08-1P,

4-((2-((4-((pyrrolidin-1-yl)ethoxy)phenyl)pyridin-4-yl)-5-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 656258-09-2P, 4-((2-((4-

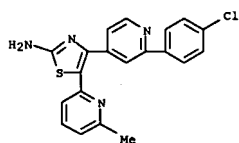
((aminocarbonyl)methyl)oxy)phenyl)pyridin-4-yl)-5-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 656258-10-5P, 4-((2-((4-((morpholin-4-yl)carbonyl)methyl)oxy)phenyl)pyridin-4-yl)-5-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 656258-11-6P, 4-((2-((4-((pyrrolidin-1-yl)methyl)phenyl)pyridin-4-yl)-5-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 656258-12-7P, 4-((2-((4-((dimethylamino)methyl)phenyl)pyridin-4-yl)-5-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 656258-13-8P, 4-((2-((4-((tetrahydropyran-4-yl)amino)carbonyl)phenyl)pyridin-4-yl)-5-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 656258-14-9P,

4-((2-((4-((morpholin-4-yl)phenyl)pyridin-4-yl)-5-(pyridin-2-yl)-1,3-thiazol-2-amine
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

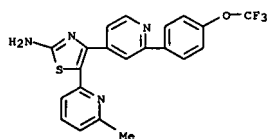
(inhibitor of TGF-β signaling pathway; preparation of aminothiazoles as inhibitors of transforming growth factor-beta (TGF-β) signaling pathway)

RN 656258-00-3 CAPLUS
 CN 2-Thiazolamine, 4-((2-((4-chlorophenyl)-4-pyridinyl)-5-(6-methyl-2-pyridinyl)-(9CI) (CA INDEX NAME)

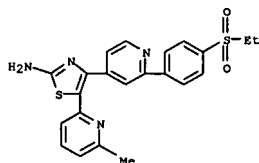
L3 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 656258-01-4 CAPLUS
CN 2-Thiazolamine,
5-(6-methyl-2-pyridinyl)-4-[2-[(4-(trifluoromethoxy)phenyl)-
4-pyridinyl]- (9CI) (CA INDEX NAME)

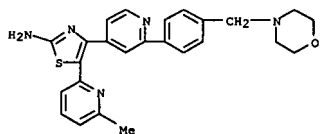


RN 656258-02-5 CAPLUS
CN 2-Thiazolamine,
4-[2-[(4-(ethylsulfonyl)phenyl)-4-pyridinyl]-5-(6-methyl-2-
pyridinyl)- (9CI) (CA INDEX NAME)

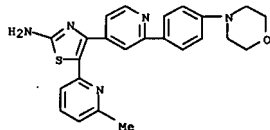


RN 656258-03-6 CAPLUS
CN Benzamide, 4-[4-[2-amino-5-(6-methyl-2-pyridinyl)-4-thiazolyl]-2-
pyridinyl]-N-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

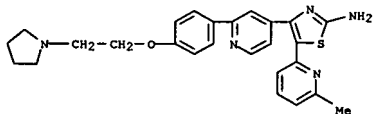
L3 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 656258-07-0 CAPLUS
CN 2-Thiazolamine,
5-(6-methyl-2-pyridinyl)-4-[2-[(4-(morpholinyl)phenyl)-4-
pyridinyl]- (9CI) (CA INDEX NAME)

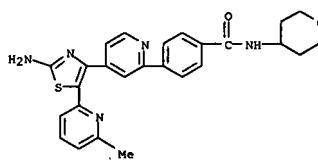


RN 656258-08-1 CAPLUS
CN 2-Thiazolamine, 5-(6-methyl-2-pyridinyl)-4-[2-[(1-
pyrrolidinyl)ethoxy]phenyl]-4-pyridinyl)- (9CI) (CA INDEX NAME)

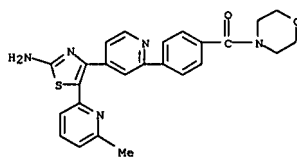


RN 656258-09-2 CAPLUS
CN Acetamide, 2-[4-[4-[2-amino-5-(6-methyl-2-pyridinyl)-4-thiazolyl]-2-
pyridinyl]phenoxyl]- (9CI) (CA INDEX NAME)

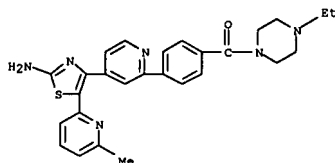
L3 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 656258-04-7 CAPLUS
CN Morpholine, 4-[4-[4-[2-amino-5-(6-methyl-2-pyridinyl)-4-thiazolyl]-2-
pyridinyl]benzoyl]- (9CI) (CA INDEX NAME)

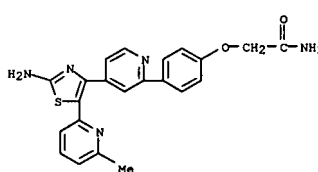


RN 656258-05-8 CAPLUS
CN Piperazine, 1-[4-[4-[2-amino-5-(6-methyl-2-pyridinyl)-4-thiazolyl]-2-
pyridinyl]benzoyl]-4-ethyl- (9CI) (CA INDEX NAME)

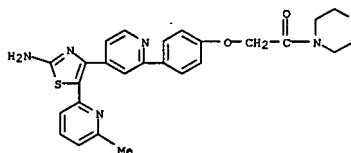


RN 656258-06-9 CAPLUS
CN 2-Thiazolamine, 5-(6-methyl-2-pyridinyl)-4-[2-[(4-(4-
morpholinylmethyl)phenyl)-4-pyridinyl]- (9CI) (CA INDEX NAME)

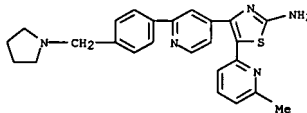
L3 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 656258-10-5 CAPLUS
CN Morpholine, 4-[4-[4-[2-amino-5-(6-methyl-2-pyridinyl)-4-thiazolyl]-2-
pyridinyl]phenoxyl]acetyl]- (9CI) (CA INDEX NAME)

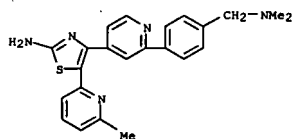


RN 656258-11-6 CAPLUS
CN 2-Thiazolamine, 5-(6-methyl-2-pyridinyl)-4-[2-[(1-
pyrrolidinylmethyl)phenyl]-4-pyridinyl]- (9CI) (CA INDEX NAME)

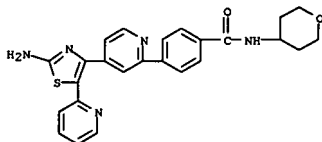


RN 656258-12-7 CAPLUS
CN 2-Thiazolamine, 4-[2-[(4-[(dimethylamino)methyl]phenyl)-4-pyridinyl]-5-(6-
methyl-2-pyridinyl)- (9CI) (CA INDEX NAME)

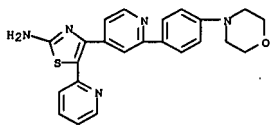
L3 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 656258-13-8 CAPLUS
 CN Benzamide, 4-[4-[2-amino-5-(2-pyridinyl)-4-thiazolyl]-2-pyridinyl]-N-(tetrahydro-2H-pyran-4-yl)- (8CI) (CA INDEX NAME)



RN 656258-14-9 CAPLUS
 CN 2-Thiazolamine, 4-[2-[4-(4-morpholinyl)phenyl]-4-pyridinyl]-5-(2-pyridinyl)- (8CI) (CA INDEX NAME)



L3 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1971:22749 CAPLUS

DN 74:22749

TI Synthesis of pyridyl- and quinolyl-substituted 2-aminothiazoles

AU Taurins, Alfred; Blaga, Aurel

CS Dep. Chem., McGill Univ., Montreal, QC, Can.

SO Journal of Heterocyclic Chemistry (1970), 7(5), 1137-41

CODEN: JHTCAD; ISSN: 0022-152X

DT Journal

LA English

ED Entered STN: 12 May 1984

AB Five 2-amino-4-(x-pyridyl)- and 2-amino-4-(x-quinolyl)thiazoles (x = 2 or 3) were synthesized by the condensation of thiourea with bromoacetylpyridines and -quinolines. The reaction of pyridyl pyridylmethyl ketones with thiourea and halogens produced four 2-aminothiazoles possessing pyridyl substituents in 4- and 5-positions on the thiazole ring. Treatment of N-(3-pyridyl)- and

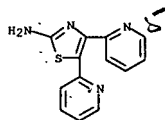
N-(3-quinolyl)thiourea with α-bromo ketones gave seven 2-(3-pyridyl)amino- and 2-(3-quinolyl)aminothiazoles. The uv spectra of the pyridyl- and quinolyl-substituted 2-aminothiazoles were recorded.

IT 30235-32-6P 30235-33-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (Preparation of)

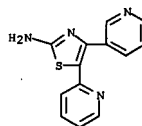
RN 30235-32-6 CAPLUS

CN Pyridine, 2,2'-(2-amino-4,5-thiazolediyl)di- (8CI) (CA INDEX NAME)



RN 30235-33-7 CAPLUS

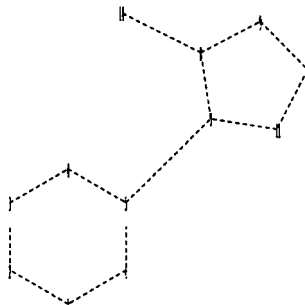
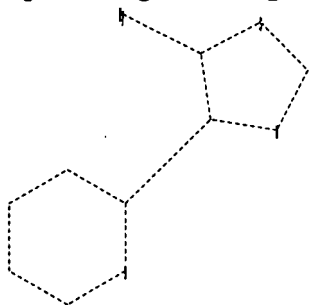
CN Pyridine, 2-[2-amino-4-(4-pyridyl)-5-thiazolyl]- (8CI) (CA INDEX NAME)



=>

=>

Uploading C:\Program Files\Stnexp\Queries\10-667187(18)..str



chain nodes :

14

ring nodes :

1 2 3 4 5 6 7 8 9 10 11

chain bonds :

5-7 8-14

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-11 8-9 9-10 10-11

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 7-8 7-11 8-9 8-14 9-10 10-11

isolated ring systems :

containing 1 : 7 :

G1:O,S

Match level :

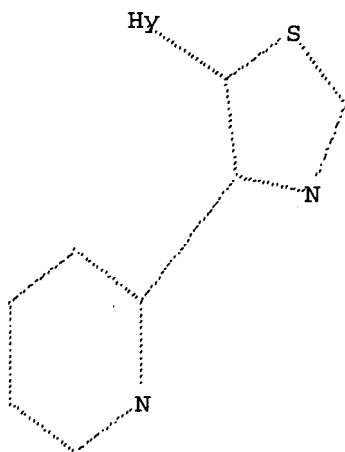
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 14:Atom

L4 STRUCTURE UPLOADED

=> d

L4 HAS NO ANSWERS

L4 STR



G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l4 ful

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...

Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 16:52:21 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 11677 TO ITERATE

100.0% PROCESSED 11677 ITERATIONS

73 ANSWERS

SEARCH TIME: 00.00.01

L5 73 SEA SSS FUL L4

L6 10 L5

=> d fbib ed abs hitstr tot

L6 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2004:1127377 CAPLUS

DN 142:74556

TI Preparation of novel aminothiazoles as inhibitors of the transforming growth factor (TGF- β) signaling pathway

IN Dodic, Nerina; Donche, Frederic; Gellibert, Francoise Jeanne

FA Smithkline Beecham Corporation, USA

SO PCT Int. Appl., 40 pp.

CODEN: PIXXD2

DT Patent

LA English

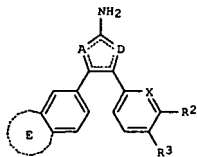
FAN. CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2004111046	A2	20041223	WO 2004-EP6425	20040614
WO 2004111046	A3	20050120		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EP 1660494	A2	20060531	GB 2003-13914	A 20030616
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, HR		EP 2004-739896	20040614
			GB 2003-13914	A 20030616
JP 2006527720	T	20061207	WO 2004-EP6425	W 20040614
			JP 2006-515934	20040614
			GB 2003-13914	A 20030616
US 2006247233	A1	20061102	WO 2004-EP6425	W 20040614
			US 2006-560691	20060413
			GB 2003-13914	A 20030616
			WO 2004-EP6425	W 20040614

OS MARPAT 142:74556

ED Entered STN: 24 Dec 2004

GI



I

L6 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

AB The title compds. I [either A = S and D = N; or A = N and D = S; ring E = (un)substituted (un)saturated or aromatic 5-6 membered heterocycle; X = N, CH; R2

= H, alkyl, halo, CN, perfluoroalkyl; R3 = H, halo] which are inhibitors of the transforming growth factor, ("TGF")- β signaling pathway, in particular, the phosphorylation of smad2 or smad3 by the TGF- β type I or activin-like kinase ("ALK")-5 receptor, were prepared E.g., a

multi-step synthesis of 5-(1-methylbenzimidazol-6-yl)-4-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine, which showed an ALK5 receptor modulator activity of 16

nM and TGF- β cellular activity of 11 nM, was given. The invention also relates to the use of compds. I in medicine, specifically in the

treatment and prevention of a disease state mediated by this pathway. The

pharmaceutical compns. comprising the compound I is disclosed.

IT 813448-88-3P, 5-(1-Methylbenzimidazol-6-yl)-4-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 813448-90-7P, 5-(1-Ethylbenzimidazol-6-yl)-4-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 813448-91-8P, 5-(1-(2-Methoxyethyl)benzimidazol-6-yl)-4-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 813448-92-3P 813448-93-0P

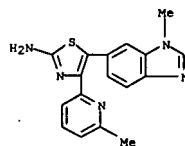
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of novel aminothiazoles as inhibitors of transforming growth factor β for treatment of disorders mediated by the ALK5 receptor)

RN 813448-88-3 CAPLUS

CN 2-Thiazolamine,

5-(1-methyl-1H-benzimidazol-6-yl)-4-(6-methyl-2-pyridinyl)-(9CI) (CA INDEX NAME)

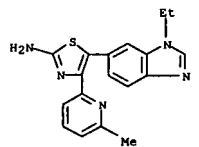


RN 813448-90-7 CAPLUS

CN 2-Thiazolamine,

5-(1-ethyl-1H-benzimidazol-6-yl)-4-(6-methyl-2-pyridinyl)-(9CI) (CA INDEX NAME)

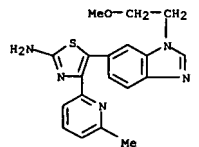
L6 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 813448-91-8 CAPLUS

CN 2-Thiazolamine,

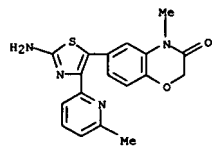
5-(1-(2-methoxyethyl)-1H-benzimidazol-6-yl)-4-(6-methyl-2-pyridinyl)-(9CI) (CA INDEX NAME)



RN 813448-92-9 CAPLUS

CN 2H-1,4-Benzoxazin-3(4H)-one,

6-[2-amino-4-(6-methyl-2-pyridinyl)-5-thiazolyl]-4-methyl- (9CI) (CA INDEX NAME)

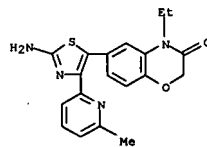


RN 813448-93-0 CAPLUS

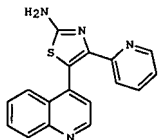
CN 2H-1,4-Benzoxazin-3(4H)-one,

6-[2-amino-4-(6-methyl-2-pyridinyl)-5-thiazolyl]-4-ethyl- (9CI) (CA INDEX NAME)

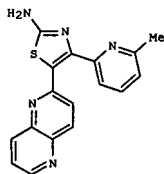
L6 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



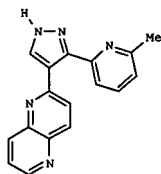
L6 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 2004:620393 CAPLUS
 DN 141:295935
 TI Identification of 1,5-Naphthyridine Derivatives as a Novel Series of
 Potent and Selective TGF- β Type I Receptor Inhibitors
 AU Gellibert, Francoise; Woolven, James; Fouchet, Marie-Helene; Mathews,
 Neil; Goodland, Helen; Lovegrove, Victoria; Laroze, Alain; Nguyen,
 Van-loc; Sautet, Stephane; Wang, Ruolan; Janson, Cheryl; Smith, Ward;
 Krysa, Gaesl; Boullay, Valerie; de Gouvillie, Anne-Charlotte; Huet,
 Stephane; Hartley, David
 CS Departments of Medicinal Chemistry and Biology, GlaxoSmithKline, Les
 Ulis,
 91951, Fr.
 SO Journal of Medicinal Chemistry (2004), 47(18), 4494-4506
 CODEN: JMCMAR; ISSN: 0022-2623
 PB American Chemical Society
 DT Journal
 LA English
 OS CASREACT 141:295935
 ED Entered STN: 04 Aug 2004
 GI



I



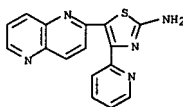
II



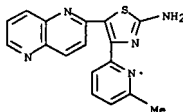
III

AB Optimization of the screening hit I led to the identification of novel
 and 1,5-naphthyridine aminothiazole and pyrazole derivs., which are potent
 and selective inhibitors of the transforming growth factor- β type I

L6 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 receptor, ALK5. Comps. II and III, which inhibited ALK5
 autophosphorylation with IC50 = 6 and 4 nM, resp., showed potent
 activities in both binding and cellular assays and exhibited selectivity
 over p38-mitogen-activated protein kinase. The X-ray crystal structure
 of
 III in complex with human ALK5 is described, confirming the binding mode
 proposed from docking studies.
 IT 446297-60-5P 446297-62-7P 764717-47-7P
 764717-48-8P 764717-49-9P 764717-50-2P
 RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic
 preparation); BIOL (Biological study); PREP (Preparation)
 (preparation, TGF- β inhibition, and structure-activity relationship
 of
 naphthyridine aminothiazoles via condensation of naphthyridines with
 Et
 picolinates or benzoates followed by bromination and cyclization with
 thiourea)
 RN 446297-60-5 CAPLUS
 CN 2-Thiazolamine, 5-(1,5-naphthyridin-2-yl)-4-(2-pyridinyl)- (9CI) (CA
 INDEX NAME)

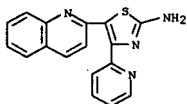


RN 446297-62-7 CAPLUS
 CN 2-Thiazolamine, 4-(6-methyl-2-pyridinyl)-5-(1,5-naphthyridin-2-yl)- (9CI)
 (CA INDEX NAME)

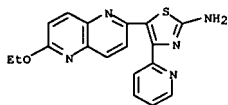


RN 764717-47-7 CAPLUS
 CN 2-Thiazolamine, 4-(2-pyridinyl)-5-(2-quinolinyl)- (9CI) (CA INDEX NAME)

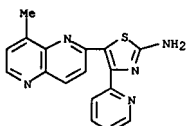
L6 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



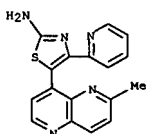
RN 764717-48-8 CAPLUS
 CN 2-Thiazolamine, 5-(6-ethoxy-1,5-naphthyridin-2-yl)-4-(2-pyridinyl)- (9CI)
 (CA INDEX NAME)



RN 764717-49-9 CAPLUS
 CN 2-Thiazolamine, 5-(8-methyl-1,5-naphthyridin-2-yl)-4-(2-pyridinyl)- (9CI)
 (CA INDEX NAME)

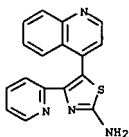


RN 764717-50-2 CAPLUS
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 (CA INDEX NAME)

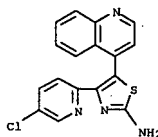


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 764717-44-4P 764717-46-6P

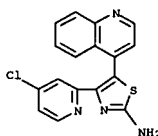
L6 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic
 preparation); BIOL (Biological study); PREP (Preparation)
 (prepn., TGF- β inhibition, and structure-activity relationship of
 quinolinyl or naphthyridinylaminothiazoles via bromination of
 quinolinyl or naphthyridinylethanones followed by cyclization with
 thiourea)
 RN 446297-58-1 CAPLUS
 CN 2-Thiazolamine, 4-(2-pyridinyl)-5-(4-quinolinyl)- (9CI) (CA INDEX NAME)



RN 764717-42-2 CAPLUS
 CN 2-Thiazolamine, 4-(5-chloro-2-pyridinyl)-5-(4-quinolinyl)- (9CI) (CA
 INDEX NAME)

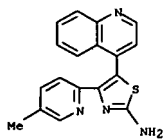


RN 764717-43-3 CAPLUS
 CN 2-Thiazolamine, 4-(4-chloro-2-pyridinyl)-5-(4-quinolinyl)- (9CI) (CA
 INDEX NAME)

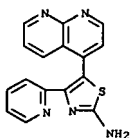


RN 764717-44-4 CAPLUS
 CN 2-Thiazolamine, 4-(5-methyl-2-pyridinyl)-5-(4-quinolinyl)- (9CI) (CA
 INDEX NAME)

L6 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 764717-46-6 CAPLUS
CN 2-Thiazolamine, 5-(1,8-naphthyridin-4-yl)-4-(2-pyridinyl)- (9CI) (CA INDEX NAME)



RE.CNT 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2004:267326 CAPLUS

DN 140:287371

TI Preparation of 2-(oxazol-4-yl)pyridines and related compounds as transforming growth factor (TGF) inhibitors for the treatment of cancer and fibrotic diseases

IN Blumberg, Laura Cook; Munchhof, Michael John

PA Pfizer Products Inc., USA

SO PCT Int. Appl., 72 pp.

CODEN: PIXMD2

DT Patent

LA English

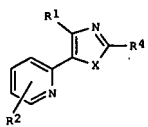
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PI WO 2004026863	A1	20040401	WO 2003-IB3823	20030908
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RM: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SH, TD, TG				
US 2002-412120P	P	20020918		
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US 2003-484581P	P	20030702		
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AU 2003256003	A1	20040408	WO 2003-IB3823	20030908
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EP 1542994	A1	20050622	WO 2003-IB3823	20030908
			EP 2003-797426	20030908
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
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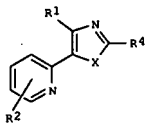
L6 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

JP 20060119 JP 2004-568899 20030908
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WO 2003-IB3823 W 20030908
US 2003-667187 W 20030917
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US 2003-471265P P 20030516
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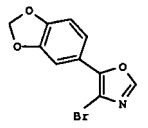
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ED Entered STN: 01 Apr 2004
GI



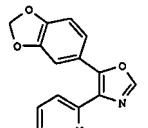
I



II



III



IV

AB Title compds. I and II [X = O, S; R1 = (un)saturated aromatic, monocyclic, bicyclic, etc.; R2 = (R3)s; R3 = H, halo, halo-alkyl, etc.; s = 1-5; R4 = H, halo, halo-alkyl, etc.] and their pharmaceutically acceptable salts were prepared. For example, Stille coupling of bromide III e.g., prepared from benzo[1,3]dioxole-5-carboxaldehyde in 2-steps, and 2-bromo-6-methylpyridine afforded oxazole IV in 70% yield. In B1-transforming growth factors kinase assays, 10-examples of compds. I and II exhibited IC50 values ranging from 19.7-600 nM. Of note, compds. I and II also possess differential activity, i.e. are selective for B1-TGF over

L6 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

B2-TGF and B3-TGF. Compds. I and II are claimed useful for the treatment of TGF-related disease states including cancer and fibrotic diseases.

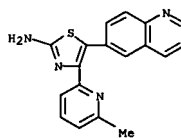
IT 676165-91-6P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(Preparation of 2-(oxazol-4-yl)pyridines and related compds. as transforming growth factor (TGF) inhibitors for the treatment of cancer and fibrotic diseases)

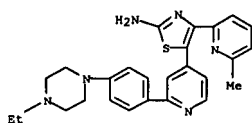
RN 676165-91-6 CAPLUS

CN 2-Thiazolamine, 4-(6-methyl-2-pyridinyl)-5-(6-quinolinyl)- (9CI) (CA INDEX NAME)

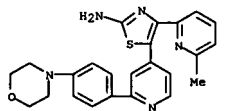


RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

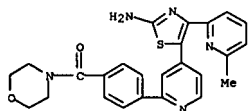
L6 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



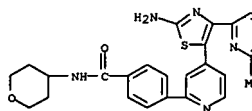
RN 656257-91-9 CAPLUS
CN 2-Thiazolamine, 4-(6-methyl-2-pyridinyl)-5-[2-[(4-morpholinyl)phenyl]-4-pyridinyl]- (9CI) (CA INDEX NAME)



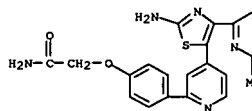
RN 656257-92-0 CAPLUS
CN Morpholine, 4-[4-[(2-amino-4-(6-methyl-2-pyridinyl)-5-thiazolyl)-2-pyridinyl]benzoyl]- (9CI) (CA INDEX NAME)



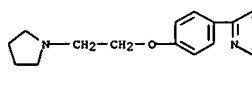
RN 656257-93-1 CAPLUS
CN Benzamide, 4-[4-[(2-amino-4-(6-methyl-2-pyridinyl)-5-thiazolyl)-2-pyridinyl]-N-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)



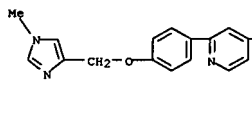
L6 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



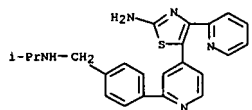
RN 656257-98-6 CAPLUS
CN 2-Thiazolamine, 4-(6-methyl-2-pyridinyl)-5-[2-[(2-(1-pyrrolidinyl)ethoxy)phenyl]-4-pyridinyl]- (9CI) (CA INDEX NAME)



RN 656257-99-7 CAPLUS
CN 2-Thiazolamine, 5-[2-[(4-[(1-methyl-1H-imidazol-4-yl)methoxy]phenyl)-4-pyridinyl]-4-(6-methyl-2-pyridinyl)- (9CI) (CA INDEX NAME)



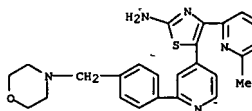
RN 656258-16-1 CAPLUS
CN 2-Thiazolamine, 5-[2-[(4-[(1-methylethyl)amino]methyl)phenyl]-4-pyridinyl]-4-(2-pyridinyl)- (9CI) (CA INDEX NAME)



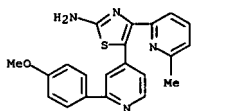
RN 656258-17-2 CAPLUS

L6 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

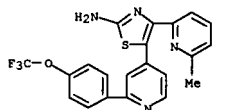
RN 656257-94-2 CAPLUS
CN 2-Thiazolamine, 4-(6-methyl-2-pyridinyl)-5-[2-[(4-(4-morpholinylmethyl)phenyl)-4-pyridinyl]- (9CI) (CA INDEX NAME)



RN 656257-95-3 CAPLUS
CN 2-Thiazolamine, 5-[2-[(4-methoxyphenyl)-4-pyridinyl]-4-(6-methyl-2-pyridinyl)- (9CI) (CA INDEX NAME)



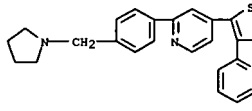
RN 656257-96-4 CAPLUS
CN 2-Thiazolamine, 4-(6-methyl-2-pyridinyl)-5-[2-[(4-(trifluoromethoxy)phenyl)-4-pyridinyl]- (9CI) (CA INDEX NAME)



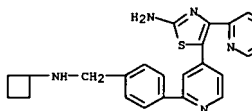
RN 656257-97-5 CAPLUS
CN Acetamide, 2-[4-[(2-amino-4-(6-methyl-2-pyridinyl)-5-thiazolyl)-2-pyridinyl]phenoxy]- (9CI) (CA INDEX NAME)



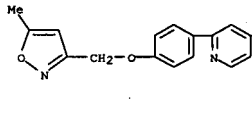
L6 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN 2-Thiazolamine, 4-(2-pyridinyl)-5-[2-[(4-(1-pyrrolidinylmethyl)phenyl)-4-pyridinyl]- (9CI) (CA INDEX NAME)



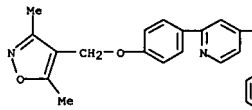
RN 656258-18-3 CAPLUS
CN 2-Thiazolamine, 5-[2-[(4-(cyclobutylamino)methyl)phenyl]-4-pyridinyl]-4-(2-pyridinyl)- (9CI) (CA INDEX NAME)



RN 656258-19-4 CAPLUS
CN 2-Thiazolamine, 5-[2-[(4-[(5-methyl-3-isoxazolyl)methoxy]phenyl)-4-pyridinyl]-4-(6-methyl-2-pyridinyl)- (9CI) (CA INDEX NAME)

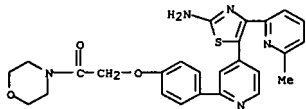


RN 656258-20-7 CAPLUS
CN 2-Thiazolamine, 5-[2-[(4-[(3,5-dimethyl-4-isoxazolyl)methoxy]phenyl)-4-pyridinyl]-4-(2-pyridinyl)- (9CI) (CA INDEX NAME)

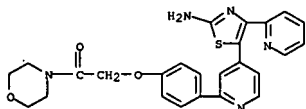


L6 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

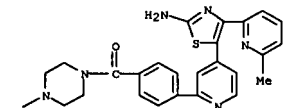
RN 656258-21-8 CAPLUS
 CN Morpholine, 4-[[4-[2-amino-4-(6-methyl-2-pyridinyl)-5-thiazolyl]-2-pyridinyl]phenoxy]acetyl]- (9CI) (CA INDEX NAME)



RN 656258-22-9 CAPLUS
 CN Morpholine, 4-[[4-[2-amino-4-(2-pyridinyl)-5-thiazolyl]-2-pyridinyl]phenoxy]acetyl]- (9CI) (CA INDEX NAME)



RN 656258-25-2 CAPLUS
 CN Piperazine, 1-[4-[2-amino-4-(6-methyl-2-pyridinyl)-5-thiazolyl]-2-pyridinyl]benzoyl]-4-ethyl- (9CI) (CA INDEX NAME)

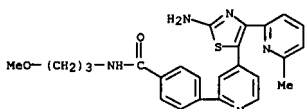


RN 656258-27-4 CAPLUS
 CN Benzamide, 4-[4-[2-amino-4-(6-methyl-2-pyridinyl)-5-thiazolyl]-2-pyridinyl]-N-cyclohexyl-N-methyl- (9CI) (CA INDEX NAME)

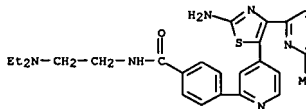


L6 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

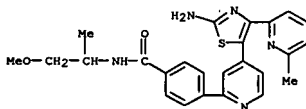
RN 656258-32-1 CAPLUS
 CN Benzamide, 4-[4-[2-amino-4-(6-methyl-2-pyridinyl)-5-thiazolyl]-2-pyridinyl]-N-(3-methoxypropyl)- (9CI) (CA INDEX NAME)



RN 656258-33-2 CAPLUS
 CN Benzamide, 4-[4-[2-amino-4-(6-methyl-2-pyridinyl)-5-thiazolyl]-2-pyridinyl]-N-[2-(diethylamino)ethyl]- (9CI) (CA INDEX NAME)



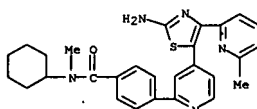
RN 656258-34-3 CAPLUS
 CN Benzamide, 4-[4-[2-amino-4-(6-methyl-2-pyridinyl)-5-thiazolyl]-2-pyridinyl]-N-(2-methoxy-1-methylethyl)- (9CI) (CA INDEX NAME)



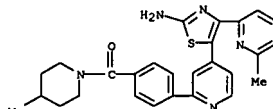
RN 656258-35-4 CAPLUS
 CN Benzamide, 4-[4-[2-amino-4-(6-methyl-2-pyridinyl)-5-thiazolyl]-2-pyridinyl]-N-[(tetrahydro-2-furanyl)methyl]- (9CI) (CA INDEX NAME)



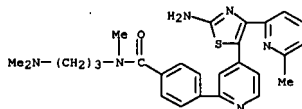
L6 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



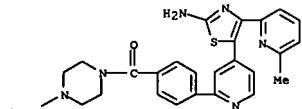
RN 656258-28-5 CAPLUS
 CN Piperidine, 1-[4-[2-amino-4-(6-methyl-2-pyridinyl)-5-thiazolyl]-2-pyridinyl]benzoyl]-4-methyl- (9CI) (CA INDEX NAME)



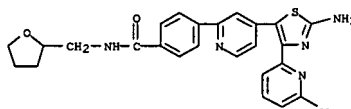
RN 656258-29-6 CAPLUS
 CN Benzamide, 4-[4-[2-amino-4-(6-methyl-2-pyridinyl)-5-thiazolyl]-2-pyridinyl]-N-[3-(dimethylamino)propyl]-N-methyl- (9CI) (CA INDEX NAME)



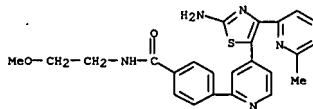
RN 656258-30-9 CAPLUS
 CN Piperazine, 1-[4-[2-amino-4-(6-methyl-2-pyridinyl)-5-thiazolyl]-2-pyridinyl]benzoyl]-4-(1-methylethyl)- (9CI) (CA INDEX NAME)



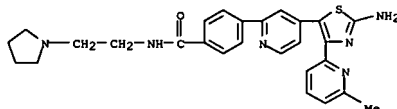
L6 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



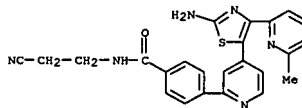
RN 656258-36-5 CAPLUS
 CN Benzamide, 4-[4-[2-amino-4-(6-methyl-2-pyridinyl)-5-thiazolyl]-2-pyridinyl]-N-(2-methoxyethyl)- (9CI) (CA INDEX NAME)



RN 657399-56-9 CAPLUS
 CN Benzamide, 4-[4-[2-amino-4-(6-methyl-2-pyridinyl)-5-thiazolyl]-2-pyridinyl]-N-[2-(1-pyrrolidinyl)ethyl]- (9CI) (CA INDEX NAME)

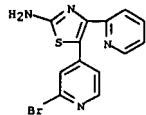


RN 657399-57-0 CAPLUS
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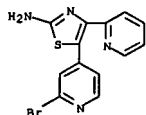


IT 446852-67-1DP, Rink Argopore resin-bound 446852-67-1P,
 5-(2-bromo-4-pyridinyl)-4-(2-pyridinyl)-1,3-thiazol-2-amine
 656257-87-3DP, Rink Argopore resin-bound 656257-87-3P,

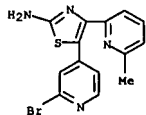
L6 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 5-(2-Bromo-4-pyridinyl)-4-(6-methyl-2-pyridinyl)-1,3-thiazol-2-amine
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (prepn. of 2-phenylpyridin-4-yl heterocycles as selective activin-like
 kinase-5 inhibitors useful against fibrosis and other disorders)
 RN 446852-67-1 CAPLUS
 CN 2-Thiazolamine, 5-(2-bromo-4-pyridinyl)-4-(2-pyridinyl)- (9CI) (CA INDEX
 NAME)



RN 446852-67-1 CAPLUS
 CN 2-Thiazolamine, 5-(2-bromo-4-pyridinyl)-4-(2-pyridinyl)- (9CI) (CA INDEX
 NAME)



RN 656257-87-3 CAPLUS
 CN 2-Thiazolamine, 5-(2-bromo-4-pyridinyl)-4-(6-methyl-2-pyridinyl)- (9CI)
 (CA INDEX NAME)



RN 656257-87-3 CAPLUS
 CN 2-Thiazolamine, 5-(2-bromo-4-pyridinyl)-4-(6-methyl-2-pyridinyl)- (9CI)
 (CA INDEX NAME)

L6 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 2004:120850 CAPLUS
 DN 140:163858
 TI Preparation of aminothiazoles as inhibitors of the transforming growth
 factor-beta (TGF-β) signalling pathway
 IN Dodic, Nerina; Gellibert, Francoise Jeanne
 PA SmithKline Beecham Corporation, USA
 SO PCT Int. Appl., 69 pp.
 CODEN: P1XXD2
 DT Patent
 LA English
 FAN. CNT 1

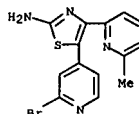
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WO 2004013134	A2	20040212	WO 2003-EP8385	20030729
WO 2004013134	A3	20040325		
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RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
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EP 1554275	A2	20050720	EP 2003-766352	20030729
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
JP 2005538996	T	20051222	GB 2002-17787	A 20020731
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US 2006004051	A1	20060105	WO 2003-EP8385	W 20030729
			US 2005-522968	20050131
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OS MARPAT 140:163858
 ED Entered STN: 13 Feb 2004
 GI

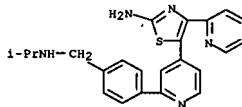
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [wherein either A = S and B = N, or A = N and B = S; X = CH or N; R1 = H, alk(en)yl, perfluoroalkoxy, halo, CN, perfluoroalkyl, NH2 and derivs., (CH2)nNH2 and derivs., CONH2 and derivs., SO2H and derivs., SO2NH2 and derivs., etc.; R2 = H, perfluoroalkyl, halo, CN; R3 = H, halo; R4 = NH2; n = 1-4 with the proviso that certain compds. are not considered] were prepared as inhibitors of the transforming growth factor-beta (TGF-β) signaling pathway, in particular, the phosphorylation of smad2 or smad3 by the TGF-β type I or activin-like kinase-5 (ALK-5) receptor for treatment and prevention of a disease state

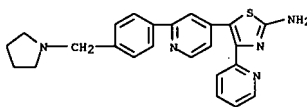
L6 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L6 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 mediated by this pathway. For example, II was prep'd by reaction of 2-bromo-4-methylpyridine with Me 6-methylpicolinic acid, Pd-cross coupling with 4-(methoxycarbonyl)phenylboronic acid, hydrolysis, acylation of 4-aminoterahydrofuran with the resulting acid, followed by solid phase cyclocondensation of III with thiourea. II showed an ALK5 receptor modulator activity of 14 nM in an ALK5 fluorescence polarization assay
 and TGF-β cellular activity of 29 nM in a cellular transcriptional assay. Thus, I are useful for treating or preventing a disease or condition mediated by ALK-5 inhibition, in particular kidney fibrosis.
 IT 656258-16-1P 656258-17-2P 656258-18-3P
 656258-19-4P 656258-20-7P 656258-21-8P
 656258-22-9P 656258-23-2P 656258-27-4P
 656258-28-5P 656258-30-9P 656258-31-0P
 656258-32-1P 656258-33-2P 656258-34-3P
 656258-35-4P 656258-36-5P 656258-37-6P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (inhibitor of TGF-β signaling pathway; preparation of aminothiazoles as inhibitors of transforming growth factor-beta (TGF-β) signaling pathway)
 RN 656258-16-1 CAPLUS
 CN 2-Thiazolamine, 5-[2-[4-[(1-methylethylamino)methyl]phenyl]-4-pyridinyl]-4-(2-pyridinyl)- (9CI) (CA INDEX NAME)

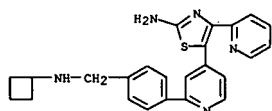


RN 656258-17-2 CAPLUS
 CN 2-Thiazolamine, 4-(2-pyridinyl)-5-[2-[4-[(1-pyrrolidinylmethyl)phenyl]-4-pyridinyl]- (9CI) (CA INDEX NAME)

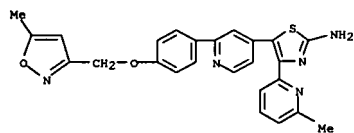


RN 656258-18-3 CAPLUS
 CN 2-Thiazolamine, 5-[2-[4-[(cyclobutylamino)methyl]phenyl]-4-pyridinyl]-4-(2-pyridinyl)- (9CI) (CA INDEX NAME)

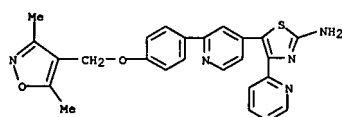
L6 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 656258-19-4 CAPLUS
CN 2-Thiazolamine, 5-[2-[(4-[(5-methyl-3-isoxazolyl)methoxy]phenyl]-4-pyridinyl]-4-(6-methyl-2-pyridinyl)]- (9CI) (CA INDEX NAME)



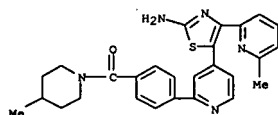
RN 656258-20-7 CAPLUS
CN 2-Thiazolamine, 5-[2-[(3,5-dimethyl-4-isoxazolyl)methoxy]phenyl]-4-pyridinyl]-4-(2-pyridinyl)]- (9CI) (CA INDEX NAME)



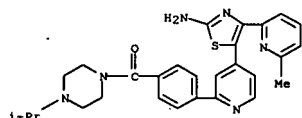
RN 656258-21-8 CAPLUS
CN Morpholine, 4-[(4-[(2-amino-4-(6-methyl-2-pyridinyl)-5-thiazolyl]-2-pyridinyl)phenoxy]acetyl]- (9CI) (CA INDEX NAME)

L6 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

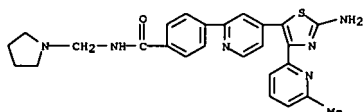
RN 656258-28-5 CAPLUS
CN Piperidine, 1-[4-[(4-[(2-amino-4-(6-methyl-2-pyridinyl)-5-thiazolyl]-2-pyridinyl)benzoyl]-4-methyl]- (9CI) (CA INDEX NAME)



RN 656258-30-9 CAPLUS
CN Piperazine, 1-[4-[(4-[(2-amino-4-(6-methyl-2-pyridinyl)-5-thiazolyl]-2-pyridinyl)benzoyl]-4-(1-methylethyl)]- (9CI) (CA INDEX NAME)

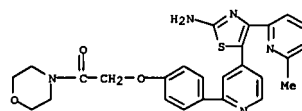


RN 656258-31-0 CAPLUS
CN Benzanide, 4-[4-[(2-amino-4-(6-methyl-2-pyridinyl)-5-thiazolyl]-2-pyridinyl]-N-(1-pyrrolidinylmethyl)]- (9CI) (CA INDEX NAME)

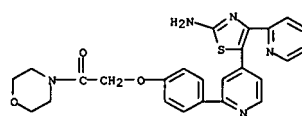


RN 656258-32-1 CAPLUS
CN Benzanide, 4-[4-[(2-amino-4-(6-methyl-2-pyridinyl)-5-thiazolyl]-2-pyridinyl]-N-(3-methoxypropyl)]- (9CI) (CA INDEX NAME)

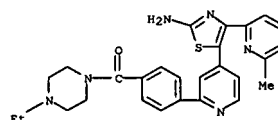
L6 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



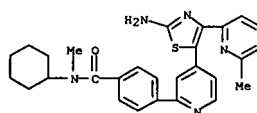
RN 656258-22-9 CAPLUS
CN Morpholine, 4-[(4-[(4-[(2-amino-4-(6-methyl-2-pyridinyl)-5-thiazolyl]-2-pyridinyl)phenoxy]acetyl]-4-ethyl]- (9CI) (CA INDEX NAME)



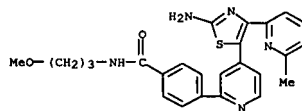
RN 656258-25-2 CAPLUS
CN Piperazine, 1-[4-[(4-[(2-amino-4-(6-methyl-2-pyridinyl)-5-thiazolyl]-2-pyridinyl)benzoyl]-4-ethyl]- (9CI) (CA INDEX NAME)



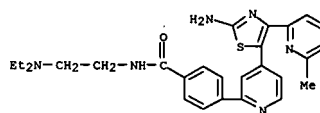
RN 656258-27-4 CAPLUS
CN Benzanide, 4-[4-[(2-amino-4-(6-methyl-2-pyridinyl)-5-thiazolyl]-2-pyridinyl]-N-cyclohexyl-N-methyl]- (9CI) (CA INDEX NAME)



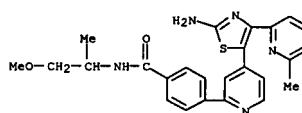
L6 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



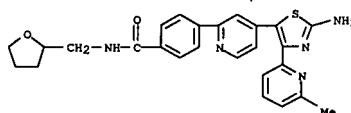
RN 656258-33-2 CAPLUS
CN Benzanide, 4-[4-[(2-amino-4-(6-methyl-2-pyridinyl)-5-thiazolyl]-2-pyridinyl]-N-(2-(diethylamino)ethyl)]- (9CI) (CA INDEX NAME)



RN 656258-34-3 CAPLUS
CN Benzanide, 4-[4-[(2-amino-4-(6-methyl-2-pyridinyl)-5-thiazolyl]-2-pyridinyl]-N-(2-methoxy-1-methylethyl)]- (9CI) (CA INDEX NAME)

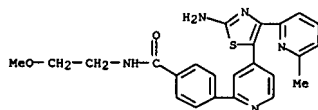


RN 656258-35-4 CAPLUS
CN Benzanide, 4-[4-[(2-amino-4-(6-methyl-2-pyridinyl)-5-thiazolyl]-2-pyridinyl]-N-[(tetrahydro-2-furanyl)methyl]]- (9CI) (CA INDEX NAME)

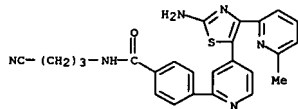


RN 656258-36-5 CAPLUS
CN Benzanide, 4-[4-[(2-amino-4-(6-methyl-2-pyridinyl)-5-thiazolyl]-2-pyridinyl]-N-(2-methoxyethyl)]- (9CI) (CA INDEX NAME)

L6 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 656257-88-4 CAPLUS
 CN Benzamide, 4-([2-amino-4-(6-methyl-2-pyridinyl)-5-thiazolyl]-2-pyridinyl)-N-(3-cyanopropyl)- (9CI) (CA INDEX NAME)



IT 656257-88-4P, 5-[2-[4-(Morpholin-4-yl)phenyl]pyridin-4-yl]-4-(pyridin-2-yl)-1,3-thiazol-2-amine 656257-89-5P,

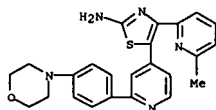
5-[2-[4-(Methanesulfonyl)phenyl]pyridin-4-yl]-4-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 656257-90-8P, 5-[2-[4-(4-Ethylpiperazin-1-yl)phenyl]pyridin-4-yl]-4-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 656257-91-9P, 5-[2-[4-(Morpholin-4-yl)phenyl]pyridin-4-yl]-4-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 656257-92-0P,

5-[2-[4-[(Morpholin-4-yl)carbonyl]phenyl]pyridin-4-yl]-4-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 656257-93-1P, 5-[2-[4-[(Tetrahydropyran-4-yl)amino]carbonyl]phenyl]pyridin-4-yl]-4-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 656257-94-2P,

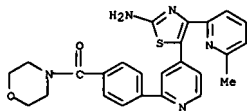
5-[2-[4-[(Morpholin-4-yl)methyl]phenyl]pyridin-4-yl]-4-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 656257-95-3P, 5-[2-[4-(Methoxyphenyl)pyridin-4-yl]-4-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 656257-96-4P, 5-[2-[4-(Trifluoromethoxyphenyl)pyridin-4-yl]-4-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 656257-97-5P, 5-[2-[4-[(Aminocarbonyl)methyl]oxy]phenyl]pyridin-4-yl]-4-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 656257-98-6P,

5-[2-[4-[2-(Pyrrolidin-1-yl)ethoxy]phenyl]pyridin-4-yl]-4-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine 656257-99-7P, 5-[2-[4-[(1-Methylimidazol-4-yl)methyl]oxy]phenyl]pyridin-4-yl]-4-(6-methylpyridin-2-yl)-1,3-thiazol-2-amine
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

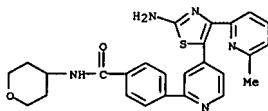
L6 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



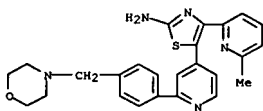
RN 656257-92-0 CAPLUS
 CN Morpholine, 4-([2-amino-4-(6-methyl-2-pyridinyl)-5-thiazolyl]-2-pyridinyl)benzoyl)- (9CI) (CA INDEX NAME)



RN 656257-93-1 CAPLUS
 CN Benzamide, 4-([2-amino-4-(6-methyl-2-pyridinyl)-5-thiazolyl]-2-pyridinyl)-N-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)



RN 656257-94-2 CAPLUS
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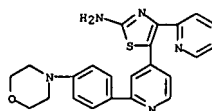


RN 656257-95-3 CAPLUS
 CN 2-Thiazolamine, 5-[2-[4-(methoxyphenyl)-4-pyridinyl]-4-(6-methyl-2-pyridinyl)]- (9CI) (CA INDEX NAME)

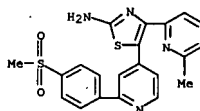
L6 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

(Uses)
 (inhibitor of TGF-β signaling pathway; prepn. of aminothiazoles as inhibitors of transforming growth factor-beta (TGF-β) signaling pathway)

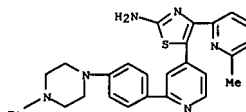
RN 656257-88-4 CAPLUS
 CN 2-Thiazolamine, 5-[2-[4-(4-morpholinyl)phenyl]-4-pyridinyl]-4-(2-pyridinyl)- (9CI) (CA INDEX NAME)



RN 656257-89-5 CAPLUS
 CN 2-Thiazolamine, 5-[2-[4-(methanesulfonyl)phenyl]-4-pyridinyl]-4-(6-methyl-2-pyridinyl)- (9CI) (CA INDEX NAME)

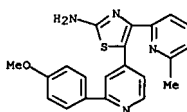


RN 656257-90-8 CAPLUS
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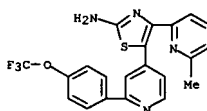


RN 656257-91-9 CAPLUS
 CN 2-Thiazolamine, 4-(6-methyl-2-pyridinyl)-5-[2-[4-(4-morpholinyl)phenyl]-4-pyridinyl]- (9CI) (CA INDEX NAME)

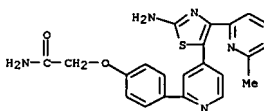
L6 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



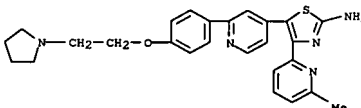
RN 656257-96-4 CAPLUS
 CN 2-Thiazolamine, 4-(6-methyl-2-pyridinyl)-5-[2-[4-(trifluoromethoxy)phenyl]-4-pyridinyl]- (9CI) (CA INDEX NAME)



RN 656257-97-5 CAPLUS
 CN Acetamide, 2-[4-[2-amino-4-(6-methyl-2-pyridinyl)-5-thiazolyl]-2-pyridinyl]phenoxy)- (9CI) (CA INDEX NAME)

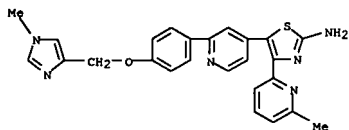


RN 656257-98-6 CAPLUS
 CN 2-Thiazolamine, 5-[2-[4-(2-(pyrrolidinyl)ethoxy)phenyl]-4-pyridinyl]-4-(6-methyl-2-pyridinyl)- (9CI) (CA INDEX NAME)



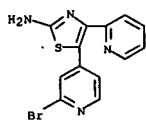
RN 656257-99-7 CAPLUS

L6 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 CN 2-Thiazolamine, 5-[2-[4-[(1-methyl-1H-imidazol-4-yl)methoxy]phenyl]-4-pyridinyl]-4-(6-methyl-2-pyridinyl)- (9CI) (CA INDEX NAME)



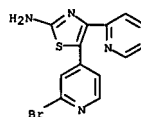
IT 446852-67-1DP, 5-(2-Bromo-4-pyridinyl)-4-(2-pyridinyl)-1,3-thiazol-2-amine, resin-bound 446852-67-1P, 5-(2-Bromo-4-pyridinyl)-4-(2-pyridinyl)-1,3-thiazol-2-amine 656257-87-3DP, 5-(2-Bromo-4-pyridinyl)-4-(6-methyl-2-pyridinyl)-1,3-thiazol-2-amine, resin-bound 656257-87-3P, 5-(2-Bromo-4-pyridinyl)-4-(6-methyl-2-pyridinyl)-1,3-thiazol-2-amine 656258-15-ODP, resin-bound 656258-26-3DP, resin-bound
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (intermediate; preparation of aminothiazoles as inhibitors of transforming

growth factor-beta (TGF-β) signaling pathway)
 RN 446852-67-1 CAPLUS
 CN 2-Thiazolamine, 5-(2-bromo-4-pyridinyl)-4-(2-pyridinyl)- (9CI) (CA INDEX NAME)

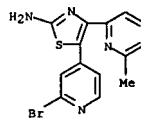


RN 446852-67-1 CAPLUS
 CN 2-Thiazolamine, 5-(2-bromo-4-pyridinyl)-4-(2-pyridinyl)- (9CI) (CA INDEX NAME)

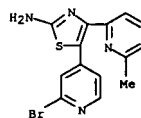
L6 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



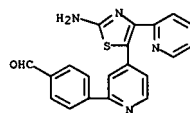
RN 656257-87-3 CAPLUS
 CN 2-Thiazolamine, 5-(2-bromo-4-pyridinyl)-4-(6-methyl-2-pyridinyl)- (9CI) (CA INDEX NAME)



RN 656257-87-3 CAPLUS
 CN 2-Thiazolamine, 5-(2-bromo-4-pyridinyl)-4-(6-methyl-2-pyridinyl)- (9CI) (CA INDEX NAME)

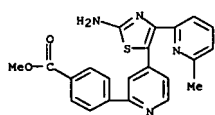


RN 656258-15-0 CAPLUS
 CN Benzaldehyde, 4-[4-[2-amino-4-(6-methyl-2-pyridinyl)-5-thiazolyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)

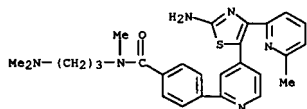


L6 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

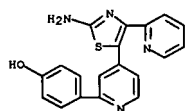
RN 656258-26-3 CAPLUS
 CN Benzoic acid, 4-[4-[2-amino-4-(6-methyl-2-pyridinyl)-5-thiazolyl]-2-pyridinyl]-, methyl ester (9CI) (CA INDEX NAME)



IT 656258-29-6P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of aminothiazoles as inhibitors of transforming growth factor-beta (TGF-β) signaling pathway)
 RN 656258-29-6 CAPLUS
 CN Benzamide, 4-[4-[2-amino-4-(6-methyl-2-pyridinyl)-5-thiazolyl]-2-pyridinyl]-N-[3-(dimethylamino)propyl]-N-methyl- (9CI) (CA INDEX NAME)

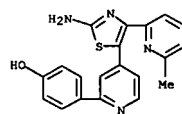


IT 656258-23-0D, resin-bound 656258-24-1D, resin-bound
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of aminothiazoles as inhibitors of transforming growth factor-beta (TGF-β) signaling pathway)
 RN 656258-23-0 CAPLUS
 CN Phenol, 4-[4-[2-amino-4-(2-pyridinyl)-5-thiazolyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 656258-24-1 CAPLUS
 CN Phenol, 4-[4-[2-amino-4-(6-methyl-2-pyridinyl)-5-thiazolyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)

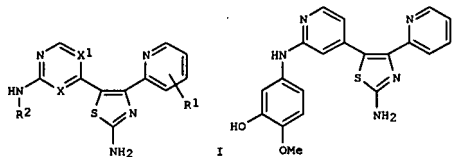
L6 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L6 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 2002:615609 CAPLUS
 DN 137:169512
 TI Preparation of thiazoles as TGF- β inhibitors
 IN Gellibert, Francoise Jeanne
 PA Glaxo Group Limited, UK
 SO PCT Int. Appl., 21 pp.
 COHEN: PIXKD2
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002062793	A1	20020815	WO 2002-EP991	20020131
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LA, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1366047	A1	20031203	GB 2001-2673	A 20010202
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004521903	T	20040722	WO 2002-EP991	W 20020131
GB 2001-2673				
JP 2002-563146				
GB 2001-2673				
WO 2002-EP991				

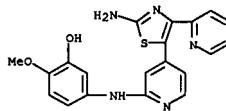
OS MARPAT 137:169512
 ED Entered STN: 16 Aug 2002
 GI



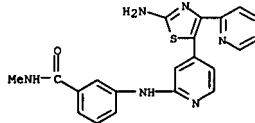
AB The title compds. [I; R1 = H, halo, CN, etc.; R2 = (un)substituted (CH2)nPh, (CH2)nheterocyclyl, (CH2)nheteroaryl; n = 0-5; X, X1 = CH, N,

L6 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 provided that X and X1 are not both N], useful in therapy, particularly in the treatment or prophylaxis of disorders characterized by over expression of transforming growth factor β (TGF- β), were prepd. General procedure for the synthesis of compds. I by coupling the bromo aminothiazole resin with arylamine was given. All 3 exemplified compds.

I [e.g., thiazole II] showed IC50 of 5 μ M or below in TGF- β assay, and IC50 of 1 μ M or below against kinase Alk5.
 IT 446852-53-5P 446852-55-7P 446852-57-9P
 446852-59-1P 446852-61-5P 446852-63-7P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 RN [preparation of thiazoles as TGF- β inhibitors]
 CN Phenol, 5-[[4-[2-amino-4-(2-pyridinyl)-5-thiazolyl]-2-pyridinyl]amino]-2-methoxy- (9CI) (CA INDEX NAME)

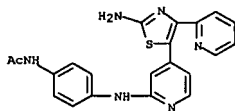


RN 446852-55-7 CAPLUS
 CN Benzamide, 3-[[4-[2-amino-4-(2-pyridinyl)-5-thiazolyl]-2-pyridinyl]amino]-N-methyl- (9CI) (CA INDEX NAME)

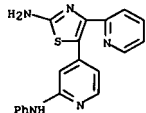


RN 446852-57-9 CAPLUS
 CN Acetamide, N-[[4-[2-amino-4-(2-pyridinyl)-5-thiazolyl]-2-pyridinyl]amino]phenyl- (9CI) (CA INDEX NAME)

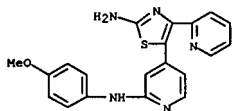
L6 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



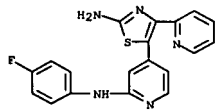
RN 446852-59-1 CAPLUS
 CN 2-Pyridinamine, 4-[2-amino-4-(2-pyridinyl)-5-thiazolyl]-N-phenyl- (9CI) (CA INDEX NAME)



RN 446852-61-5 CAPLUS
 CN 2-Pyridinamine, 4-[2-amino-4-(2-pyridinyl)-5-thiazolyl]-N-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



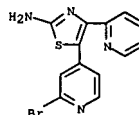
RN 446852-63-7 CAPLUS
 CN 2-Pyridinamine, 4-[2-amino-4-(2-pyridinyl)-5-thiazolyl]-N-(4-fluorophenyl)- (9CI) (CA INDEX NAME)



IT 446852-67-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

L6 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 (Reactant or reagent)
 (prepn. of thiazoles as TGF- β inhibitors)

RN 446852-67-1 CAPLUS
 CN 2-Thiazolamine, 5-(2-bromo-4-pyridinyl)-4-(2-pyridinyl)- (9CI) (CA INDEX NAME)



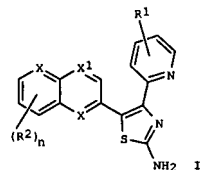
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 2002:615590 CAPLUS
 DN 137:169511
 TI Preparation of 2-amino-4-(pyridin-2-yl)-thiazole derivatives as transforming growth factor beta (tgf-beta) inhibitors
 IN Gellibert, Francoise Jeanne; Hartley, Charles David; Mathews, Neil; Woolven, James Michael
 PA Glaxo Group Limited, UK
 SO PCT Int. Appl., 23 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

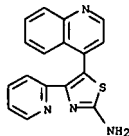
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002062776	A1	20020815	WO 2002-EP940	20020130
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ,			
TM RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EP 1355892	A1	20031029	EP 2002-710053	20020130
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
JP 2004523540	T	20040805	WO 2002-EP940	20020130
US 2004063745	A1	20040401	WO 2002-EP940	20020130

OS CASREACT 137:169511; MARPAT 137:169511
 ED Entered STN: 16 Aug 2002
 GI

L6 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

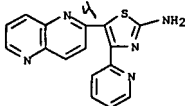


AB The preparation of 2-amino-4-(pyridin-2-yl)-thiazole derivs. [I; wherein R1 = H, halo, CN, CF3, (C1-C4)alkyl, (C1-C4)alkoxy; n = 0-5; R2, which may be the same or different, = halo, CN, CF3, OCF3, (C1-C4)alkyl, (C1-C4)alkoxy; X = CH, N; X1 = N when X is CH, and CH when X is N] is discussed. Thus, 1-pyridin-2-yl-2-quinolin-4-ylethanone is reacted with polymer supported pyridinium, and subsequently with thiourea to give 4-(pyridin-2-yl)-5-quinolin-4-yl-1,3-thiazol-2-amine. The prepared compds. are useful as transforming growth factor beta (tgf-beta) inhibitors.
 IT 446297-58-1P 446297-60-5P 446297-62-7P
 RI: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 transforming growth factor beta (tgf-beta) inhibitors
 RN 446297-58-1 CAPLUS
 CN 2-Thiazolamine, 4-(2-pyridinyl)-5-(4-quinolinyl)- (9CI) (CA INDEX NAME)

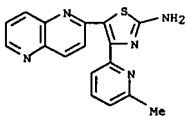


RN 446297-60-5 CAPLUS
 CN 2-Thiazolamine, 5-(1,5-naphthyridin-2-yl)-4-(2-pyridinyl)- (9CI) (CA INDEX NAME)

L6 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 446297-62-7 CAPLUS
 CN 2-Thiazolamine, 4-(6-methyl-2-pyridinyl)-5-(1,5-naphthyridin-2-yl)- (9CI) (CA INDEX NAME)



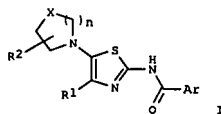
RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2002:615589 CAPLUS
 DN 137:169545
 TI Preparation of 2-acylaminothiazole derivatives or their salts as promoters of megakaryocyte colony formation
 IN Koshio, Hiroyuki; Kimizuka, Tetsuya; Sugawara, Keizo; Watanuki, Susumu; Koga, Yuji; Nagata, Hiroshi; Suzuki, Kenichi; Abe, Masaki
 PA Yamanouchi Pharmaceutical Co., Ltd., Japan
 SO PCT Int. Appl., 44 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002062775	A1	20020815	WO 2002-JP755	20020131
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ,			
TM RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EP 1357116	A1	20031029	EP 2002-711252	20020131
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
US 2004077697	A1	20040422	WO 2002-JP755	20020131
			US 2003-470917	20030801
			JP 2001-26955	20010202
			WO 2002-JP755	20020131

OS MARPAT 137:169545
 ED Entered STN: 16 Aug 2002
 GI



AB The title compds. [I; Ar = Ph or pyridinyl optionally substituted by Z1 group(s) selected from lower alkyl, lower alkylcarbonyl, lower alkoxy, lower alkoxy, lower alkylcarbonyloxy, and halo; R1 = aryl or pyridyl optionally substituted by Z1 group(s) selected from lower alkyl, lower alkylcarbonyl, lower alkoxy, lower alkoxy, lower alkylcarbonyloxy, and halo; R2 = H, OH, CO2H, lower

L6 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
alkoxy carbonyl, mono- or di(lower alkyl)carbamoyl, amino, or cyclic amino, wherein more than 1 of R2 may be present; X = CH₂, O, S, NR₃; R₃ = (un)substituted lower alkyl, cycloalkyl, (un)substituted aryl, (un)substituted aryl-lower alkyl, (un)substituted heteroaryl, (un)substituted heteroaryl-lower alkyl, lower alky carbonyl, lower alkoxy carbonyl, mono- or di(lower alkyl)carbamoyl or pharmaceutically acceptable salts thereof are prepd. These compds. 1 have an activity of increasing platelets based on an excellent effect of accelerating megakaryocyte colony formation and are efficacious in treating thrombopenia. Thus, 680 mg 2-methoxyisonicotinic acid and 1.02 g 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide hydrochloride were added to a soln. of 1.60 g 2-amino-4-(4-fluorophenyl)-5-(4-cyclohexylpiperazinyl)thiazole in 30 mL THF and stirred at room temp. for

4 days to give

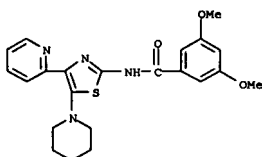
N-[5-(4-cyclohexylpiperazinyl)-4-(4-fluorophenyl)thiazol-2-yl]-2-methoxyisonicotinamide hydrochloride (II). II in vitro increased the formation of megakaryocyte colonies of human CD34⁺ cells from 5.2 at 0.3 μM to 19.0 and 34.8 at 1.0 and 3.0 μM, resp.

IT 446066-02-OP, N-[5-(Piperidin-1-yl)-4-(2-pyridyl)thiazol-2-yl]-3,5-dimethoxybenzamide hydrochloride
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of acylaminothiazole derivs. or salts as promoters of megakaryocyte colony formation for increasing blood platelets and treating thrombopenia)

RN 446066-02-0 CAPLUS

CN Benzamide, 3,5-dimethoxy-N-[5-(1-piperidinyl)-4-(2-pyridinyl)-2-thiazolyl]-, monohydrochloride (9CI) (CA INDEX NAME)



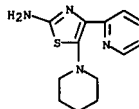
● HCl

IT 446065-54-9P, 2-Amino-5-(piperidin-1-yl)-4-(2-pyridyl)thiazole
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of acylaminothiazole derivs. or salts as promoters of

L6 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
megakaryocyte colony formation for increasing blood platelets and treating thrombopenia)

RN 446065-54-9 CAPLUS

CN 2-Thiazolamine, 5-(1-piperidinyl)-4-(2-pyridinyl)- (9CI) (CA INDEX NAME)



RE.CNT 60 THERE ARE 60 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
AN 2002:615565 CAPLUS

DN 137:169509

TI Syntheses of thiazolamines and their use as TGF-beta inhibitors

IN Gellibert, Francoise Jeanne

PA Glaxo Group Limited, UK

SO FCT Int. Appl., 21 pp.

CODEN: PXXXX2

DT Patent

LA English

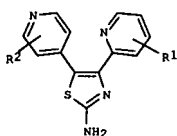
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002062753	A1	20020815	WO 2002-EP993	20020131
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DL, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LA, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1355870	A1	20031029	EP 2002-718067	20020131
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004524302	T	20040812	GB 2001-2665	A 20010202
WO 2002-EP993 W 20020131				
JP 2002-562711 20020131				
GB 2001-2665 A 20010202				
WO 2002-EP993 W 20020131				
US 2004077687 A1 20040422				
US 2003-470882 W 20030731				
WO 2002-EP993 W 20020131				

OS MARPAT 137:169509

ED Entered STN: 16 Aug 2002

GI



I

AB The patent relates to therapeutically active thiazole derivs. of formula (I) wherein R1 is selected from H, halo, -CN, -CF₃, C1 alkyl or C₄ alkoxy; R2 is selected from Ph, furanyl or thienyl, each of which may be further substituted by one or more substituents, which may be the same or different, selected from halo, -CN, -CF₃, -OCF₃, C14 alkyl or C14 alkoxy,

L6 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
and salts and solvates thereof., processes for the prepn. thereof, the use

thereof in therapy, particularly in the treatment or prophylaxis of disorders characterized by over expression of transforming growth factor β (TGF-β), and pharmaceutical compns. for use in such therapy. Thus, 5-[2-(4-Chlorophenyl)pyridin-4-yl]-4-pyridin-2-yl-1,3-thiazol-2-amine prepd. from 2-[2-(4-Chlorophenyl)pyridin-4-yl]-1-pyridin-2-ylethanone in THF catalyzed by a polymer supported pyridinium perbromide was tested in vitro using a biol. assay which was performed in HepG2 cells

stably transfected with the Pal-1-promoter (known to be a strong TGF-P3 responsive promoter) linked to a luciferase (firefly) reporter gene and showed an IC50 value of below 5 μM.

IT 446301-78-6P 446301-80-OP 446301-82-2P

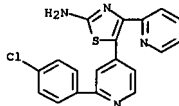
446301-84-4P 446301-86-6P 446301-88-8P

RL: IMF (Industrial manufacture); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of thiazolamines and use as TGF-beta inhibitors)

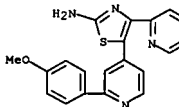
RN 446301-78-6 CAPLUS

CN 2-Thiazolamine, 5-[2-(4-chlorophenyl)-4-pyridinyl]-4-(2-pyridinyl)- (9CI) (CA INDEX NAME)



RN 446301-80-0 CAPLUS

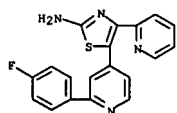
CN 2-Thiazolamine, 5-[2-(4-methoxyphenyl)-4-pyridinyl]-4-(2-pyridinyl)- (9CI) (CA INDEX NAME)



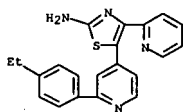
RN 446301-82-2 CAPLUS

CN 2-Thiazolamine, 5-[2-(4-fluorophenyl)-4-pyridinyl]-4-(2-pyridinyl)- (9CI) (CA INDEX NAME)

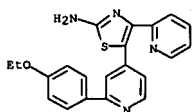
L6 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



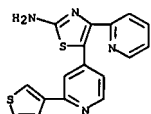
RN 446301-84-4 CAPLUS
 CN 2-Thiazolamine, 5-[2-(4-ethylphenyl)-4-pyridinyl]-4-(2-pyridinyl)- (9CI)
 (CA INDEX NAME)



RN 446301-86-6 CAPLUS
 CN 2-Thiazolamine, 5-[2-(4-ethoxyphenyl)-4-pyridinyl]-4-(2-pyridinyl)- (9CI)
 (CA INDEX NAME)



RN 446301-88-8 CAPLUS
 CN 2-Thiazolamine, 4-[2-(3-thienyl)-4-pyridinyl]-5-[2-(3-pyridinyl)-4-pyridinyl]- (9CI)
 (CA INDEX NAME)



L6 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1971:22749 CAPLUS

DN 74:22749

TI Synthesis of pyridyl- and quinolyl-substituted 2-aminothiazoles

AU Taurins, Alfred; Blaga, Aurel

CS Dep. Chem., McGill Univ., Montreal, QC, Can.

SO Journal of Heterocyclic Chemistry (1970), 7(5), 1137-41

CODEN: JHTCAD; ISSN: 0022-152X

DT Journal

LA English

ED Entered STN: 12 May 1984

AB Five 2-amino-4-(x-pyridyl)- and 2-amino-4-(x-quinolyl)thiazoles (x = 2 or 3) were synthesized by the condensation of thiourea with bromoacetylpyridines and -quinolines. The reaction of pyridyl pyridylmethyl ketones with thiourea and halogens produced four 2-aminothiazoles possessing pyridyl substituents in 4- and 5-positions on the thiazole ring. Treatment of N-(3-pyridyl)- and

N-(3-quinolyl)thiourea with α-bromo ketones gave seven 2-(3-pyridyl)amino- and 2-(3-quinolyl)aminothiazoles. The uv spectra of the pyridyl- and quinolyl-substituted 2-aminothiazoles were recorded.

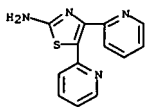
IT 30235-32-6P 30235-34-8P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

RN 30235-32-6 CAPLUS

CN Pyridine, 2,2'-(2-amino-4,5-thiazolediyl)di- (8CI) (CA INDEX NAME)



RN 30235-34-8 CAPLUS
 CN Pyridine, 2-[2-amino-5-(4-pyridyl)-4-thiazolyl]- (8CI) (CA INDEX NAME)

